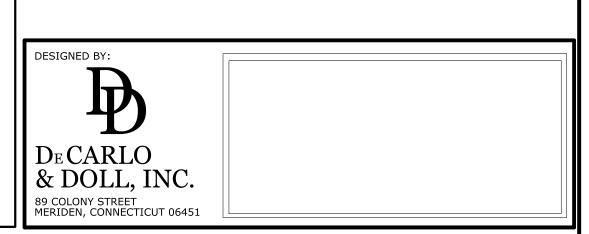
05 - STRUCTURES INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
S-1	WALL 101 GENERAL PLAN AND ELEVATION		
S-2	WALL 101 GENERAL NOTES		
S-3 to S-5	WALL 101 BORING LOGS		
S-6	WALL 101 DEMOLITION PLAN		
S-7	WALL 101 PAY LIMITS		
S-8	WALL 101 PILE LAYOUT PLAN		
S-9 TO S-11	WALL 101 PLAN AND ELEVATIONS		
S-12	TYPICAL WALL SECTIONS AND REINFORCEMENT		
S-13	MISCELLANEOUS REINFORCEMENT DETAILS		
S-14	METAL BEAM RAIL ATTACHMENT DETAILS		
S-15	ELECTRICAL DETAILS		
S-16 TO S-20	NOISE BARRIER WALL AND WALL 102 GENERAL PLAN & ELEVATIONS		
S-21	NOISE BARRIER WALL AND WALL 102 GENERAL NOTES		
S-22 TO S-26	NOISE BARRIER WALL AND WALL 102 BORING LOGS		
S-27 TO S-32	NOISE BARRIER WALL AND WALL 102 PLAN & ELEVATIONS		
S-33	NOISE BARRIER WALL & FOUNDATION DETAILS		
S-34	WALL 102 & FOUNDATION DETAILS		
BSM-1 TO BSM-6	BREAKAWAY SIGN SUPPORTS		



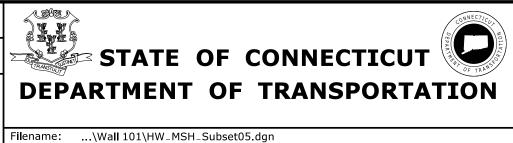
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-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED	
_	_	-	_	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED	O
-	-	-	_	INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE	
-	_	-	-	THE CONDITIONS OF ACTUAL QUANTITIES	
-	-	-	-	OF WORK WHICH WILL BE REQUIRED.	
-	-	-	_		
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 6/13/2014	

REV. DATE

DESIGNER/DRAFTER:

R.H.S./D.A.S.

CHECKED BY: J.A.G.

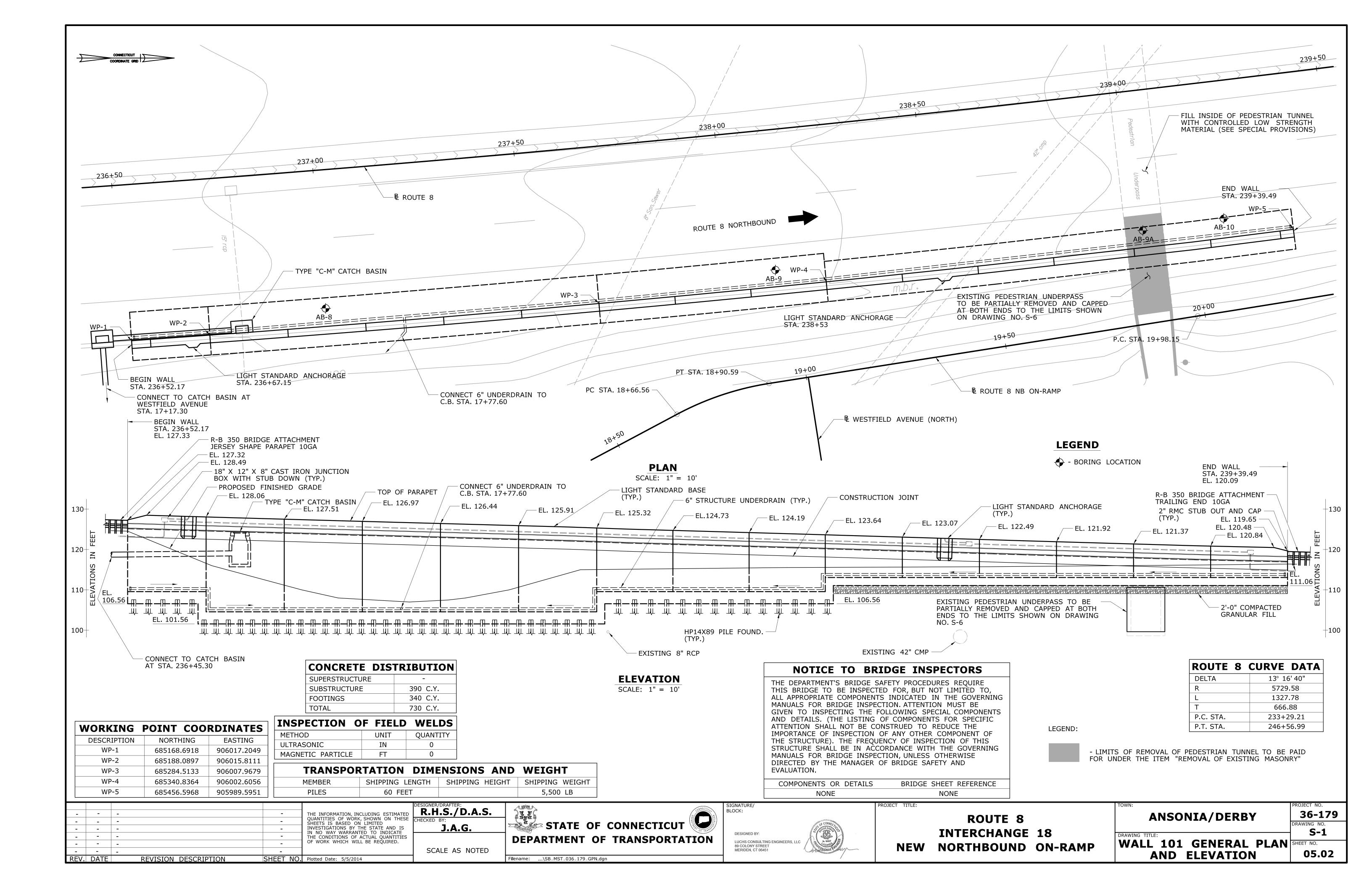




ROUTE 8 **INTERCHANGE 18** NEW NORTHBOUND ON-RAMP

TOWN:		
ANSONIA	AND	D
DRAWING TITLE:		

36-179 DERBY S-00 SUBSET 05 COVER SHEET



QUANTITIES		
ITEM	UNIT	QUANTITY
STRUCTURE EXCAVATION - EARTH (COMPLETE)	C.Y.	2600
COMPACTED GRANULAR FILL	C.Y.	150
PERVIOUS STRUCTURE BACKFILL	C.Y.	1100
CONTROLLED LOW STRENGTH MATERIAL	C.Y.	250
CLASS "A" CONCRETE	C.Y.	650
CLASS "F" CONCRETE	C.Y.	80
$\frac{1}{2}$ " PREFORMED EXPANSION JOINT FILLER FOR BRIDGES	S.F.	150
DEFORMED STEEL BARS	LBS.	65100
DEFORMED STEEL BARS - EPOXY COATED	LBS.	13500
FURNISHING STEEL PILES	LBS.	280000
DRIVING STEEL PILES	L.F.	3100
POINT REINFORCEMENT FOR STEEL PILES	EA.	79
TEST PILE (STEEL HP14X89 - 50'LONG)	EA.	2
DYNAMIC PILE DRIVING ANALYSIS (P.D.A) TEST	EA.	2
DAMPPROOFING	S.Y.	330
TEMPORARY EARTH RETAINING SYSTEM	S.F.	5800
6" STRUCTURE UNDERDRAIN	L.F.	300
REMOVAL OF EXISTING MASONRY	C.Y.	70
2" RIGID METAL CONDUIT IN STRUCTURE	L.F.	315
18"X12"X8" CAST IRON JUNCTION BOX	EA.	3

					DES
_	_	-	-	THE INFORMATION, INCLUDING ESTIMATED	
-	_	-	-	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED	CHE
-	-	-	-	INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE	
-	-	-	-	THE CONDITIONS OF ACTUAL QUANTITIES	
_	-	-	-	OF WORK WHICH WILL BE REQUIRED.	ĺ
_	_		_		1

SHEET NO. Plotted Date: 5/2/2014

REVISION DESCRIPTION

REV. DATE

R.H.S./D.A.S. J.A.G.

SCALE AS NOTED





GENERAL NOTES

ALLOWABLE DESIGN STRESSES:

CLASS "A" CONCRETE

CLASS "F" CONCRETE

(ASTM A615 GRADE 60)

(ASTM A572, GRADE 50)

LIVE LOAD: AASHTO HL-93 LOADING

REINFORCEMENT

CONCRETE NOTES

BARS (EPOXY COATED)".

WORK INCIDENTAL THERETO.

JOINT SEAL: SEE SPECIAL PROVISIONS.

STEEL PILES

DATED JANUARY 2014 AND SPECIAL PROVISIONS.

TRANSPORTATION BRIDGE DESIGN MANUAL (2003).

THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZERO.

EXISTING UTILITIES WITHIN THE LIMITS OF CONSTRUCTION.

SUBMITTED FOR REFERENCE BY THE REVIEWER.

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 816 (2004), SUPPLEMENTAL SPECIFICATIONS

fy = 60 KSI

DIMENSIONS: ALL DIMENSIONS SHOWN ON THE PLANS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL

EXISTING DIMENSIONS: THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS

ELEVATIONS ARE GIVEN IN FEET. WHEN ELEVATIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES,

BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS SHALL ALSO BE

EXISTING UTILITIES: THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND INVERT ELEVATIONS FOR ALL

EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" x 1" UNLESS DIMENSIONED OTHERWISE.

CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE TWO INCHES COVER UNLESS DIMENSIONED OTHERWISE.

EPOXY COATED REINFORCING BARS: ALL REINFORCEMENT IN THE PARAPET AND END BLOCKS SHALL BE EPOXY COATED, UNLESS OTHERWISE NOTED. THESE BARS SHALL BE INCLUDED IN THE PAY ITEM "DEFORMED STEEL

PREFORMED EXPANSION JOINT FILLER: THE PREFORMED EXPANSION JOINT FILLER WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT UNDER THE ITEM " $\frac{1}{2}$ PREFORMED EXPANSION JOINT FILLER FOR BRIDGE" COMPLETE IN PLACE, WHICH PRICE SHALL INCLUDE ALL MATERIALS, EQUIPMENTS, TOOLS, LABOR AND

CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE

REMAIN-IN-PLACE FORMS: THE USE OF REMAIN-IN-PLACE FORMS ON THIS STRUCTURE ARE NOT ALLOWED.

CLASS "F" CONCRETE: CLASS "F" CONCRETE SHALL BE USED FOR THE PARAPET AND END BLOCKS.

CLASS "A" CONCRETE: CLASS "A" CONCRETE SHALL BE USED FOR THE RETAINING WALL.

REINFORCEMENT: ALL REINFORCEMENT SHALL BE ASTM A615 GRADE 60.

PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

BASED ON f'c = 3300 PSI

BASED ON f'c = 4400 PSI

Fy = 50 KSI, FOR HP PILES

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPEIFICATIONS - 6TH EDITION, 2012 WITH INTERIM SPECIFICATIONS INCLUDING AND UP TO 2013, AND AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF

ROUTE 8 INTERCHANGE 18 NEW NORTHBOUND ON-RAMP **ANSONIA AND DERBY**

WALL 101

GENERAL NOTES

S-2 SHEET NO. 05.03

36-179

RAWING NO.

Filename: ...\SB_MST_036_179_GEN.dgn

riller: .	Jaime L	loret	i.		Co	onne	cticu	rt DOT Borin	ng Report	Hole No.: A	B-8	
spector: F	R. Beniv	wal		1	Town:		Anso	nia		Stat./Offset: 17+88		
oil Engr: Ap	plied Ea	arth T	ech.	F	Project I	No.:	36-17	76		Northing: 9	06009.17	
art Date: (08-07-1	2		I	ocation	E	Route	e 8		Easting: 6	85216.78	
ish Date: (08-07-1	2		E	Bridge N	Vo.:			2	Surface Elevation	on: 123.72	
ject Descrip	tion: R	oute	8 Ra	mp 1	18 Nort	h				Prime Engineer	: Luchs Consul	ting
sing Size/Ty	200 200		B-201	1		11007114	/Cizo:	SS 2.0 in	-	Core Barrel Tur	e: NX diamond	
mmer Wt.:	-	Fall:	II-L					bs Fall: 30 in	ROPE		sociate Borings	
oundwater O			aw				1791	DS 1 all. 00 ll)	IXOI E			-/1900 No. 200 1111
		TAXABLE PARTY OF THE PARTY OF T	AMP	COURT OF STATE OF				99				
Sample Type/No.		Blow Sam	s on		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Descripton	Ma	terial Description	on	Bevation (ff)
S-1	19	28	70		18	6		ASPHALT & PROCESS / BROWN FC	11 in Asphalt ove Yellow brown fine coarse gravel, tra	e coarse SAND, s		
5 - S-2	23	19	10	11	24	10		SAND SOME FC GRAVEL, FILL	Yellow brown fine			- 120 - -
0								GRAY BROWN FC SAND LTL FC GRAVEL	coarse gravel, tra Gray brown fine gravel, little silt, f	coarse SAND, litt ill.	lle fine coarse	_ _115
- S-3 -	7	11	12	15	24	6		LTL SILT	Gray brown fine gravel, little silt, f		lle fine coarse	- - - -110
5 S-4	10	8	11	14	24	1			Gray brown fine gravel, little silt, f		de fine coarse	
0 S-5	100/5"				5	0		BROWN FC SAND SOME FC GRAVEL	Brown fine coars gravel, little silt, o			- 105 - - - - - - 100
5 - S-6	14	14	17	13	24	6			Brown fine coars gravel,little silt, o			=
S-7	16	56	100		18	8			Brown fine coars gravel,little silt, o			-95 - - -
35 <u>S-8</u>	100/6"	L			6	3			Brown fine coars gravel,little silt, o			-90 -
40		34.0	Control of the Contro						disturbed Piston %, Some = 20 -			- <u>85</u>
al Penetrati	on in				NOT	ES: (CME 5	5 Truck Mounte	d Rig was used.		She	76
th: 49ft	Rock:	Off									1 of	2
of Samples:	No	of	ıns: O								SM-001-AE	Free man
amples:	100	TALES CELE	Statement State				100000000000000000000000000000000000000	450, Tel: 203-634-91	10 A-9		SIN-UUT-AE	REV.SNU

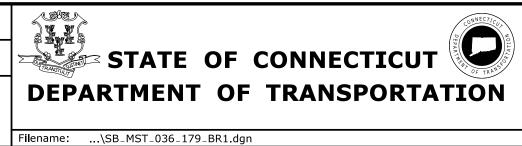
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Inspect	Page 1	Beniwal		- 1	own:		Ansor			Stat./Offset:		
		lied Earth	Tech.	_	roject l		E-11	E-1-3			906009.17	
	ate: 0				ocation		Route	8 8			385216.78	
Maria Company of the	Date: 0	e the same	100 (Wall 20)	- AT - C	Iridge N					Surface Elevat	Owner, President Control	■ Maria (No. 170)
Project	Descript	ion: Route	8 Ra	amp 1	8 Nort	h				Prime Enginee	r: Luchs Consu	iting
Casing	Size/Typ	e: 3.25 in	HA	10	ample	г Туре	/Size:	SS 2.0 in			pe: NX diamond	
Hamme	er Wt.:	Fall:		I	łamme	r Wt.:	140 lb	os Fall: 30 in	ROPE	Boring Co: As	sociate Borings	CO.
Ground	water Ob	servations:	@W	Vater	at 24 f	eet						
			SAME	LES				- O				£
Depth (ft)	Sample Type/No.		ws on npler inche		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	М	aterial Descripti and Notes	on	Bevation (
40-	5-9	15 25	49	33	24	12		BROWN FC SAND SOME FC GRAVEL (con't)	gravel, little silt, Cored large box	se SAND, some to occasional cobble ulder at 43.5 feet. to 49 feet. Core b	es and boulders.	-80
50-									END OF BORIN	NG 49ft		- -75 - - -
55— - - - 60—												70 65
65—												- -60 -
70— - - - 75—												-55 - - - - -50
80		Sample Ty	/pe:	S = S	plit Sp	oon	C = C	Core UP=Un	disturbed Pisto	n V=VaneSh	ear Test	- - -45
	F	roportions	s Use	d: T	race =	1 - 10	0%, l	Little = 10 - 20	%, Some = 20	- 35%, And =	35 - 50%	
Total P	enetratio	n in			NOT	ES: (CME 5	5 Truck Mounte	d Rig was used.		She	
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No. of	FE 200	No. of		-	-							
Soil Sai	mples: 9	Core R	uns: (SM-001-AE	Trev.9/

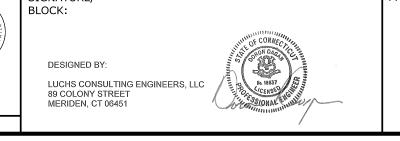
Driller:	J.	aime L	loret	t		Co	onne	cticu	rt DOT Borir	ng Report	Hole No.: AE	-9	
Inspect	tor: R	. Beni	wal		T	own:		Anso	nia		Statt/Offset: 18	+97	
Soil En	ıgır: App	lied E	arth 1	Tech.	. F	roject	No.:	36-17	76		Northing: 90	5999.68	
Start D	ate: 0	8-06-1	2	70	L	ocation	nc	Route	e 8	Easting: 68	5328.23		
Finish (Date: 0	8-06-1	2		E	Bridge M	Vo.:		o accession and the second sec	Surface Elevation	: 120.4		
Project	t Descript	ion: R	Route	8 R							Prime Engineer:	Luchs Consul	lting
				The second secon	T.		, the second	mc	econ:-		Core Demol Torre	NIV diament	
-	Size/Typ	e. 3.2				_	-		SS 2.0 in	DORE	Core Barrel Type Boring Co: Asso		
	er Wt.:		Fall:		N. 73	principal desired	No. of the last	1401	bs Fall: 30 in	ROPE	builing co. Asso	ciate comiga	~~ .
Sround	dwater Ob	oservat			PLES	at 211	eet						Ť
		8:	-	DAMMI	LEO	1			8 =				€
£	o 9		Blow	vs on		2	(m.)	8	aliz	Ma	aterial Description	ř	5
Depth (ft)	Sample Type/No.		Sam	npler		Pen. (in.)	- 3	0	Generalized Strata Description		and Notes		Pevation
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	70.1					_	_						
_	i i								ASPHALT & PROCESS :	4 in Asphalt ove			-12
-	S-1	13	29	37	39	24	10		BROWNEC		se GRAVEL and fin occasional cobbles		V —47 10 10
									GRAVEL &	and the state of the		- () - ()	
5-									FC SAND, FILL				-11
_	S-2	15	17	13	53	24	2		Sales and	ACCUSANCE AND ACCUSANCE OF THE PARTY OF THE	se GRAVEL and fin	A C 10 (8) (0) (1) (1) (1)	
-		1								Sand, trace Sit, t	occasional cobbles	, 11	-
8.5	1										Server in		1 1 1
10-	S-3	100/2	м			2	0				se GRAVEL and fin occasional cobbles		_11
5.5 6.5	3-3									fill.			
17.00	•												-
_]												
15-									BROWNEC			<u>.</u>	-10
	S-4	4	7	10	4	24	4		SAND	gravel, some silt	se SAND, some fine	e medium	
									SOME FM GRAVEL		10,50 <u>—</u> 10),		
9-40									SOME SILT.				1
20-	628 (BB)	120	<u> </u>	21	2	281	1927		FILL?	Brown fine coars	se SAND, some fin	s madium	_10
500 500	S-5	1	1	1	1	24	8		BROWNF	gravel, some silt		e mediam	: ::
-									SAND SOME SILT	Brown fine SANI fine SAND and s	D, some silt, occas	onal organic	3-0
<u> </u>									SOME SILI	Tine SAND and s	siit lenses.		
25—	S-6	5	-	4.5	40	24	4 44			Brown fine SANI	D, some silt, occas	onal omanic	-95
90,00 (4.00	S-0	5)	1	16	19	24	12			fine SAND and s	silt lenses and lamin	nations.	
101.00 A	-												
30-	S-7	8	11	14	20	24	14			Description 6.1.	D same all I am		-90
202	2-1	U		14	الاعد	24	17		BROWN FC		D, some silt, lamina coarse SAND, little		
_	1								SAND LTL F	little silt	The state of the s		
- 35-									GRAVEL				
30-	S-8	22	42	52	63	24	20		LTL SILT		coarse SAND, little	fine gravel,	-85
2	शास्त्र स्ट्री	HI CONTROL		1000	HEN WALL					little silt		E-97	
-740	1												-
40-		20											<u> </u>
TUT		Samo	le Tv	/pe:	S = S	plit Sr	oon	C = 0	Core UP = Un	disturbed Pistor	V = Vane Shea	r Test	
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Total D	enetratio					The second second	200.0		AND THE STATE OF T	d Rig was used.		She	at .
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The state of the s	57.5ft	Rock:	C. THE STATE OF			-							
No. of Soil Sa	amples: 8		o. of ore Ri	uns:	1							SM-001-AE	Trev G
				- Control	80			OT OF	450, Tel: 203-034-91	10 A-11			

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-	-	_		-	THE INFORMATION, INCLUDING ESTIMATED	
-	-	_		-	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED	С
-	-	-		-	INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE	
-	-	-		-	THE CONDITIONS OF ACTUAL QUANTITIES	Г
-	-	-		-	OF WORK WHICH WILL BE REQUIRED.	
_	-	_		-		
REV.	DATE		REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/25/2014	



SCALE AS NOTED





	ROUTE 8	
	INTERCHANGE	18
NEW	NORTHBOUND	ON-RAMP

TOWN:	PROJECT NO.
ANSONIA AND DERBY	36-179
	DRAWING NO.
DRAWING TITLE:	S-3
WALL 101	SHEET NO.
BORING LOGS - 1	05.04

Driller:	Ja	aime Lloret	Co	onne	cticu	t DOT Borin	Hole No.: AB-9		
Inspecto	or: R	. Beniwal	Town:		Anso	nia	Stat./Offset: 18+97		
Soil Eng	gr: App	lied Earth Tech.	Project	No.:	36-17	76	Northing: 905999.68		
Start Da	ate: 01	8-06-12	Location	nc	Route	e 8		Easting: 685328.23	
Finish D)ate: 04	8-06-12	Bridge I	No.:				Surface Elevation: 120.4	=
Project	Descript	ion: Route 8 Ramp	18 Nort	th				Prime Engineer: Luchs Consu	lting
Casing	Size/Typ	e: 3,25 in HA	Sample	r Type	/Size:	SS 2.0 in		Core Barrel Type: NX diamond	d
Hamme	er Wt.:	Fall:	Hamme	r Wt.:	140 II	bs Fall: 30 in	ROPE	Boring Co: Associate Borings	CO.
Ground	water Ob	servations: @Wate	er at 21 f	eet					
_		SAMPLE	S	*		8 -			€
₽	_ o	Diamage	2	<u> </u>		Generalized Strata Description	Me	terial Description	
€	a Se	Blows on Sampler	Ė	E	%	Crip Crip	INIC	and Notes	evation
Depth (ft)	Sample Type/No.	per 6 inches	Pen. (in.)	Rec. (in.)	ROD	E E S			6
40-					_				-
-	S-9	60 100/3"	9	4	= =	GRAY BROWN FC		coarse SAND, little fine gravel, nal cobbles and boulders.	-80
						SAND LTL F			
						GRAVEL LTL SILT			
45	S-10	25 62 50/1"	13	8		(con't)	Gray brown fine	coarse SAND, little fine gravel,	- -75
+	3-10	25 02 50/1	15	ľ				nal cobbles and boulders.	- "
I									
	C-1		58	6			Gray brown fine	coarse SAND, little fine gravel,	
50-				-			little silt, cobbles	and boulders.	—70
-						E. 400 S. 100 FEB 200 J. 2 FE			
<i>v</i>	3					GRAY			
55—	C-2		60	26	6	SCHIST	Gray, slightly we	athered, medium grained	10000000
35	C-2		00	20	0		SCHIST.	de Sale de Causa de La Cambrida de Mandre de Cambrida de Leita de Cambrida de Cambrida de Cambrida de Cambrida Cambrida de Cambrida de Ca	-65
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₩ —							END OF BORIN	G 57.5ft	<u>-</u>
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<i>-</i>									
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75—									- -45
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-									=67
_									=0. =a
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		The state of the s						35%, And = 35 - 50%	
Total D	enetratio	CONTRACTOR SECURIOR	Control State Co.	161 64		(4000年) (4000) (500)	d Rig was used.	She	ict.
			IVOI	Lad. Y	2 of				
Earth: 5 No. of	7.5ft	Rock: 5ft No. of						Partie Bla	
	mples: 8							SM-001-AE	Trev.9/09
120	Annalis of Fig.	rib Technologies Inc. 571 I	Con Charles		WT 88	ara was and an	10 4.12	L.	

Driller: Jaime Lloret			C	onne	cticu	it DOT Borii	ng Report	Hole No.: AB-9A		
PROCESS OF RESIDENCE CONTRACTOR OF THE PROCESS OF T			Town:		Anso	nia		Stat./Offset: 19+88		
		lied Earth Tech.	Project	No.:	36-17	76		Northing: 905989.8	9	
tart D	ate: 08	8 <mark>-06-12</mark>	Locatio		Route			Easting: 685419.2	9	
inish (Date: 08	8-06-12	Bridge	No.:				Surface Elevation: 117.7	76	
roject	Descripti	ion: Route 8 Ram						Prime Engineer: Luchs (
acina	Sizo/Tun	e: 3.25 in HA	Samul	or Tyme	JCino:	SS 2.0 in		Core Barrel Type:	10774	
	er Wt.:	Fall:		- C.E.		bs Fall: 30 in	ROPE	Boring Co: Associate B	orinas CO	
		eservations: @No v		CI 111	ITUII	JS Fall. JU III	KOLE			
TOUTE	I Water Or	SAMPLE				<u> </u>				
	į.	COMMI EL	787			8 8			€	
€	99	Blows on	2	(in.)	8	DE DE	M	aterial Description	5	
Depth (ft)	Sample Type/No.	Sampler	Pen. (in.)	Ö	0	ata son		and Notes	Bevation (ff)	
8	罗芦	per 6 inches	ě	Rec	ROD	Generalized Strata Description				
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						ASPHAL & PROCESS	4 in asphalt ove	r IU process.	:	
9						BROWNEC				
_						GRAVEL &	Brown fine coan	se gravel, and fine coarse	Sand,	
						FC SAND	boulders and co	bbles, fill.	-115	
-									113	
_									-	
5-										
_									F	
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-	C-1		3	3		CONCRETE	- Reinforced cem	ent concrete.	<u> </u>	
							END OF BOOK	10.70	-110	
							END OF BORIN	IG /π		
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7	1					10		BROWN FC	sand, trace silt, f	ill.	-118
-								SAND, LTL	Gray brown fine	coarse SAND, little coarse fine occasional cobbles, fill.	_
5 - S-2	9	10	23	15	24	4		FC GRAVEL	The state of the s	coarse SAND, little coarse fine	-
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SHEET NO. Plotted Date: 4/25/2014

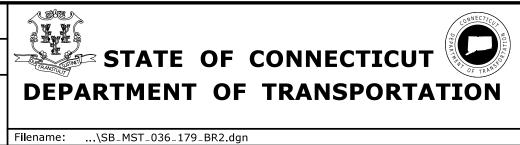
REVISION DESCRIPTION

REV. DATE

Applied Earth Technologies, Inc., 571 Bee Street, Meriden, CT 06450, Tel: 203-634-9110 A-12

DESIGNER/DRAFTER:
R.H.S./D.A.S.
CHECKED BY:
J.A.G.

SCALE AS NOTED





ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP

TOWN:	PROJECT NO.
ANSONIA AND DERBY	36-179
	DRAWING NO.
DRAWING TITLE:	S-4
WALL 101	SHEET NO.
BORING LOGS - 2	05.05

Driller:	Ja	aime L	loret		95	Co	nne	cticu	nt DOT Borin	ng Report	Hole No.: AB-10	
Inspect	or: R	. Beniv	wal		T	own:		Anso	nia		Stat./Offset: 20+00	
Soil Eng	gr: App	lied Ea	arth T	Tech.	P	roject l	No.:	36-17	76		Northing: 905986.89	
Start Da	ate: 01	3- <mark>06-1</mark>	2		L	ocation	IC I	Route	e 8		Easting: 685439.34	
Finish D	Date: 04	8-06-1	2		В	ridge N	lo.:				Surface Elevation: 117.22	
Project	Descript	ion: R	oute	8 Ram	ip 18	8 Nort	h				Prime Engineer: Luchs Cons	ulting
Casing	Size/Typ	e: 3.2	5 in H	I A	S	ampler	Туре	/Size:	SS 2.0 in		Core Barrel Type: NX diamo	
Hamme	er Wt.:		Fall:		H	amme	r Wt.:	140 lt	os Fall: 30 in	ROPE	Boring Co: Associate Boring	js CO.
Ground	water Ob	servati	ons:	@Wa	tera	at 20 f	eet					
			5	AMPL	ES	113	A		-			9
Depth (ft)	Sample Type/No.		Sam	s on pler nches		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	M	laterial Description and Notes	Bevation (ft)
40 -	S-9	45	33	44 10	0/3"	21	8		BROWN FC GRAVEL & FC SAND (con't)	Brown fine coar sand, trace silt.	rse GRAVEL, and fine coarse	- - -75
45 -	S-10	14	55	80		18	9	ř	HIGHLY WEATHERED BEDROCK	Highyl weathered/decomposed bedrock.		- - -70
50	C-1					60	60	61	GRAY SCHIST	Gray slightly we interlayered SC	eathered, medium grained HIST and granofels.	- - 65
55										END OF BORIN	NG 55ft	-60
60-												- - - - -55
65—												- - - -50
70-												- - - -45
75 -												- - - -40
80—				- cus							n V = Vane Shear Test - 35%, And = 35 - 50%	
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	-	-	-	THE CONDITIONS OF ACTUAL QUANTITIES	
	-	-	-	OF WORK WHICH WILL BE REQUIRED.	
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٧.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/25/2014	

DESIGNER/DRAFTER:
R.H.S./D.A.S.
CHECKED BY:
J.A.G.

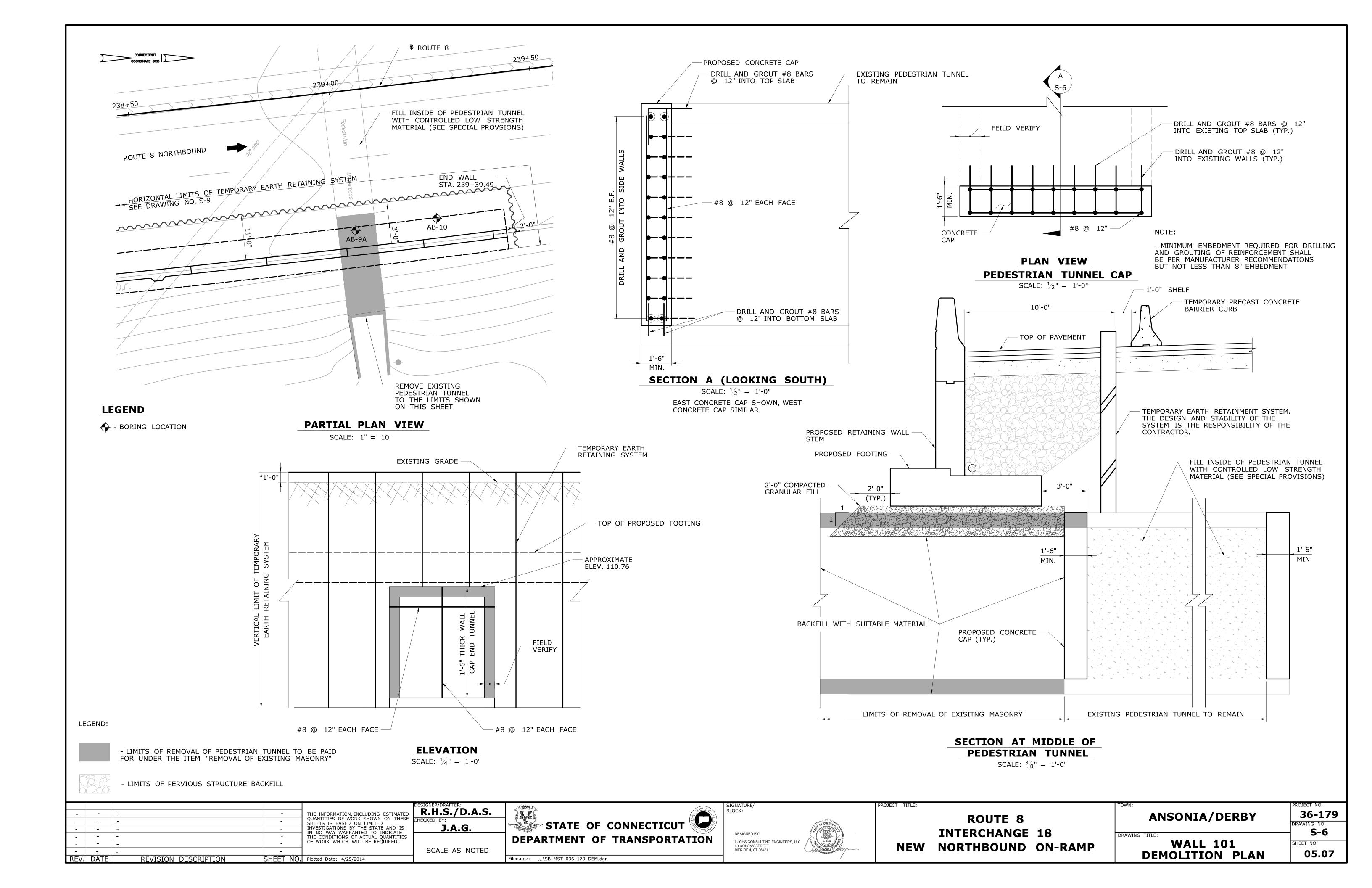
SCALE AS NOTED

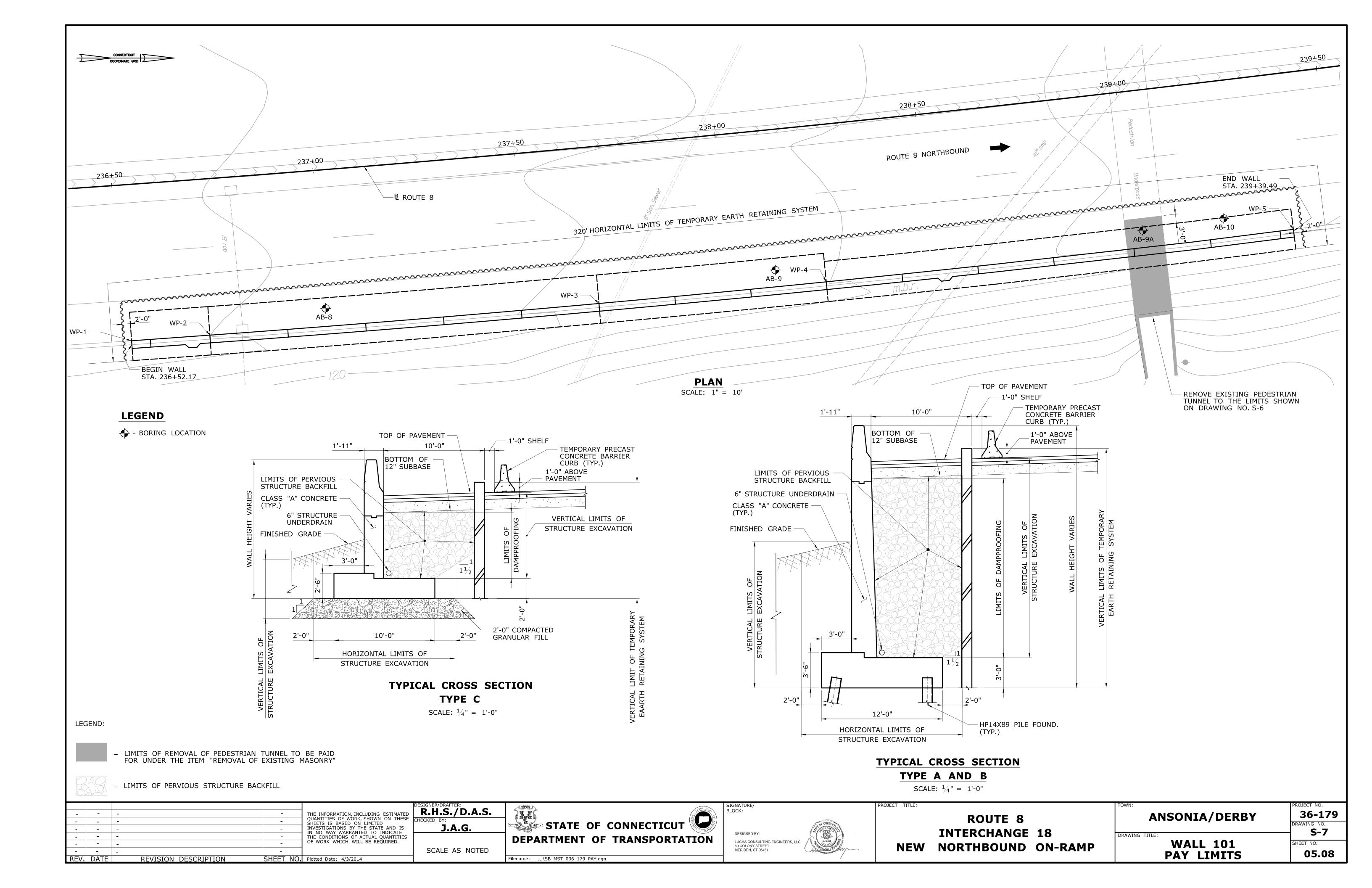




ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP

/N:	PROJECT NO.
ANSONIA AND DERBY	36-179
	DRAWING NO. S-5
WING TITLE: WALL 101	SHEET NO.
BORING LOGS - 3	05.06





WALL TYPES "A" & "B" SUPPORTED ON PILES - PEDESTRIAN UNDERCROSSING TO BE CAPPED WALL TYPE "C" SUPPORTED ON SPREAD FOOTING 1'-6" — 2 EQ. SP. = 9'-2" 6'-2" 5 EQ. SP. @ 7'-8" = 38'-4" 16 EQ. SP. @ $6'-1\frac{3}{16}$ " = 97'-8" 4 EQ. SP. = 13 EQ. SP. @ $3'-11^3/4'' = 51'-9^1/2''$ 32 EQ. SP. @ 3'-0" = 96'-0" $14'-5^{3}/_{8}$ " 6'-7⁵/₁₆ " -

> **PLAN** SCALE: 1'' = 10'

WALL TYPES A & B						
LIMIT STATE	MAXIMUM DESIGN PILE LOAD					
SERVICE I	93 KIPS					
STRENGTH I	115 KIPS					

WALL TYPE C							
LIMIT STATE	MAXIMUM	FOOTING	PRESSURE				
SERVICE I		1.6 KSF					
STRENGTH I		2.0 KSF					

PILE NOTES

- 1. PILE FACTORED AXIAL REISTANCE = 270 KIPS, THE RESISTANCE FACTOR = 0.45
- 2. NOMINAL PILE CAPACITY = 600 KIPS
- 3. NOMINAL BEARING CAPACITY = 18 KSF
- 4. RESISTANCE FACTOR FOR SLIDING = 0.80, RESISTANCE FACTOR FOR BEARING CAPACITY = 0.45.
- 5. FACTORED BEARING CAPACITY = 8 KSF (WALL TYPE C).
- 6. HP14X89 PILES SHALL CONFORM TO ASTM A572, GRADE 50, Fy = 50 KSI.
- 7. ESTIMATED PILE LENGTH FOR RETAINING WALL 101, TYPE A = 40 FEET, TYPE B = 50 FEET.
- PRIOR TO DRIVING THE PILES, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL HIS METHOD AND SEQUENCE OF PILE DRIVING. ALL PILES SHALL BE END BEARING.
- 9. POINT REINFORCEMENT FOR HP14X89 PILES ARE TO BE INSTALLED. PREFABRICATED POINT REINFORCEMENT DEVICES SHALL BE USED IF APPROVED BY THE ENGINEER. THE PREFABRICATED POINT REINFORCEMENT SHALL BE ATTACHED TO THE HP14X89 PILES BY CONTINUOUS FILLET WELDS ALONG THE PERIMETER OF THE HP PILE. PILE POINTS FABRICATED FROM CAST STEEL (ASTM A27), OR APPROVED EQUAL, ARE RECOMMENDED FOR THEIR STRENGTH AND DURABILITY.
- 10. WELDING DETAILS SHALL CONFORM TO ANSI/AASHTO/AWS D1.5 (2010 EDITION) INCLUDING 2011 INTERIMS OF BRIDGE WELDING CODE.
- 11. THE CONTRACTOR SHALL SUBMIT ALL PROPRIETARY HP PILE POINT REINFORCEMENT FOR THE REVIEW AND APPROVAL BY THE ENGINEER.
- 12. CONFORMANCE TO THE FOLLOWING TOLERANCES IS OF EXTREME IMPORTANCE TO FOUNDATIONS OF THIS TYPE.
- 13. PRIOR TO PLACING, EACH HP PILE SHALL BE HELD BY TEMPLATE TO WITHIN 2" OF PLAN LOCATION.
- 14. AFTER EACH PILE IS IN PLACE, THE PILE'S TOP SHALL BE WITHIN 6" OF PLAN LOCATION.
- 15. THE ESTIMATED PILE LENGTH SHOULD NOT BE USED AS THE ORDER LENGTH. ORDER LENGTHS WILL BE DETERMINED UPON COMPLETION OF THE PDA TESTING AND REPORT.
- 16. DYNAMIC PILE MONITORING SHOULD BE PERFORMED ON THE TWO TEST PILES.
- 17. THE USE OF VIBRATORY HAMMERS FOR INSTALLATION OF ANY PORTION OF THE PILES WILL NOT BE PERMITTED.

LEGEND

- I DENOTES VERTICAL HP14X89 PILE
- 1 DENOTES BATTERED HP14X89 PILE
- (**I**)- DENOTES HP14X89 TEST PILE

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SHEET NO. Plotted Date: 5/1/2014

REVISION DESCRIPTION

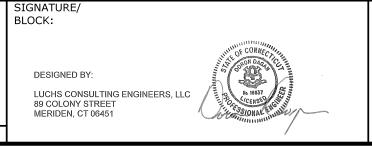
REV. DATE

R.H.S./D.A.S. J.A.G.

SCALE AS NOTED

STATE OF CONNECTICUT **DEPARTMENT OF TRANSPORTATION**

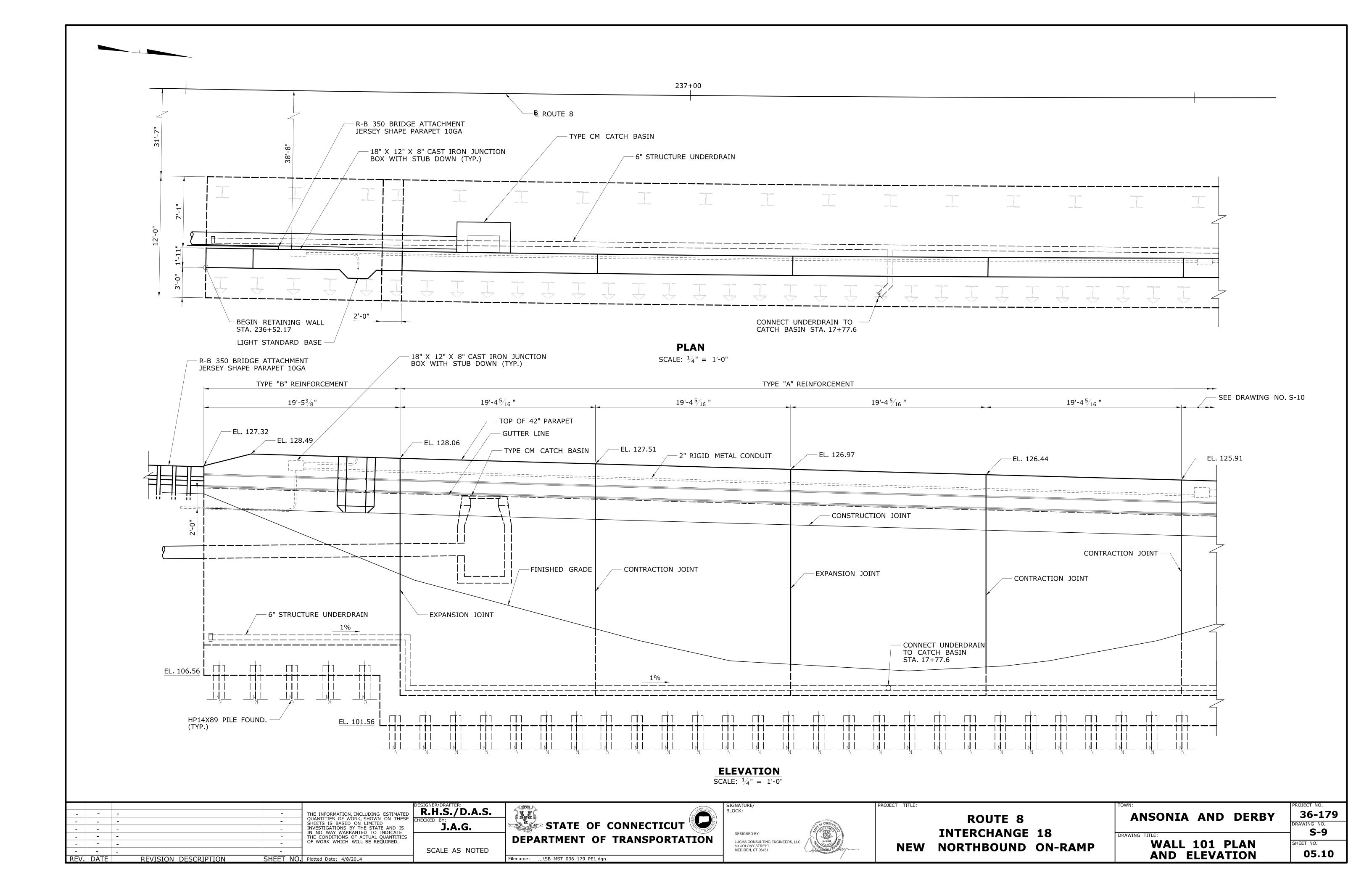
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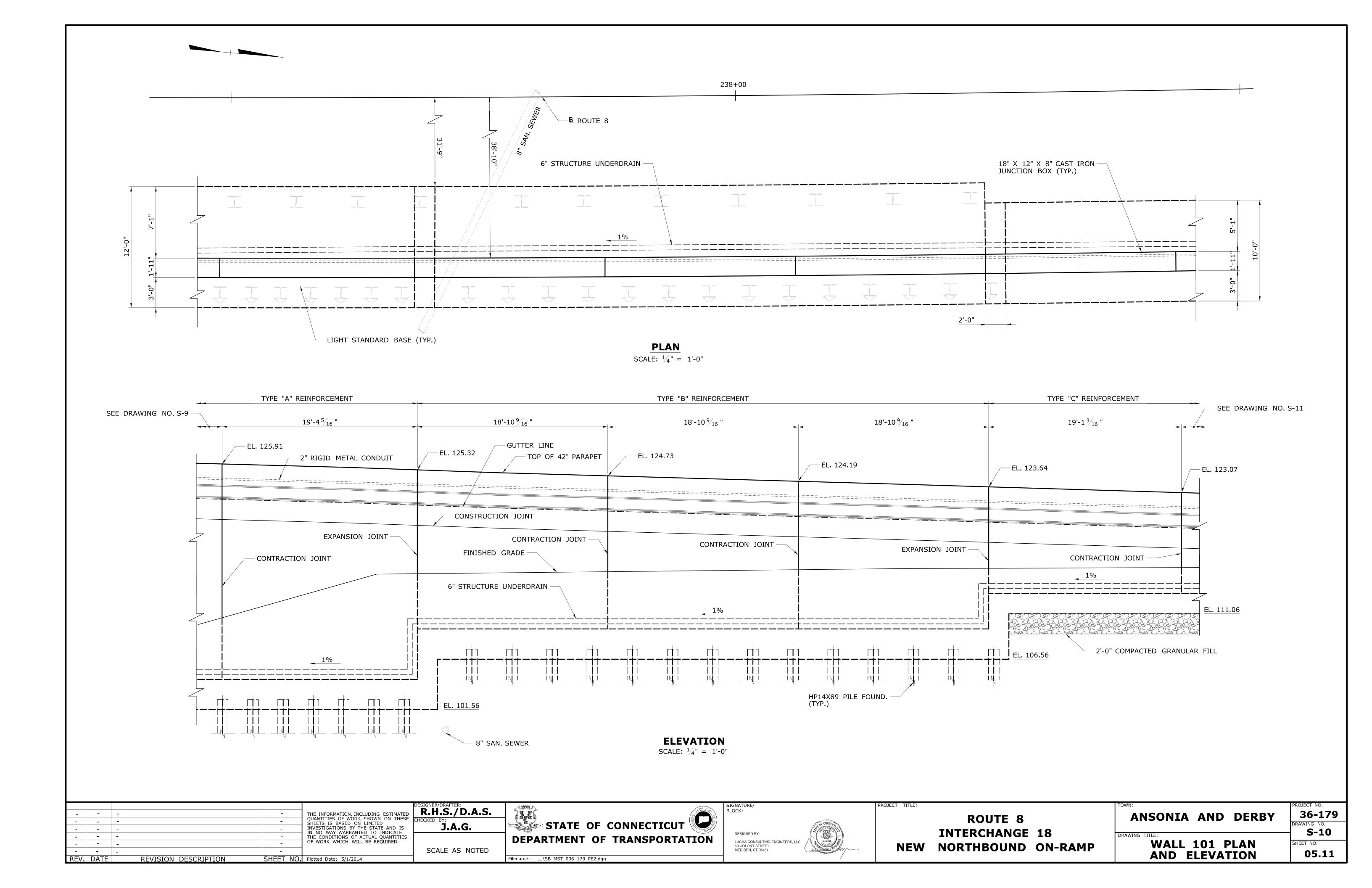


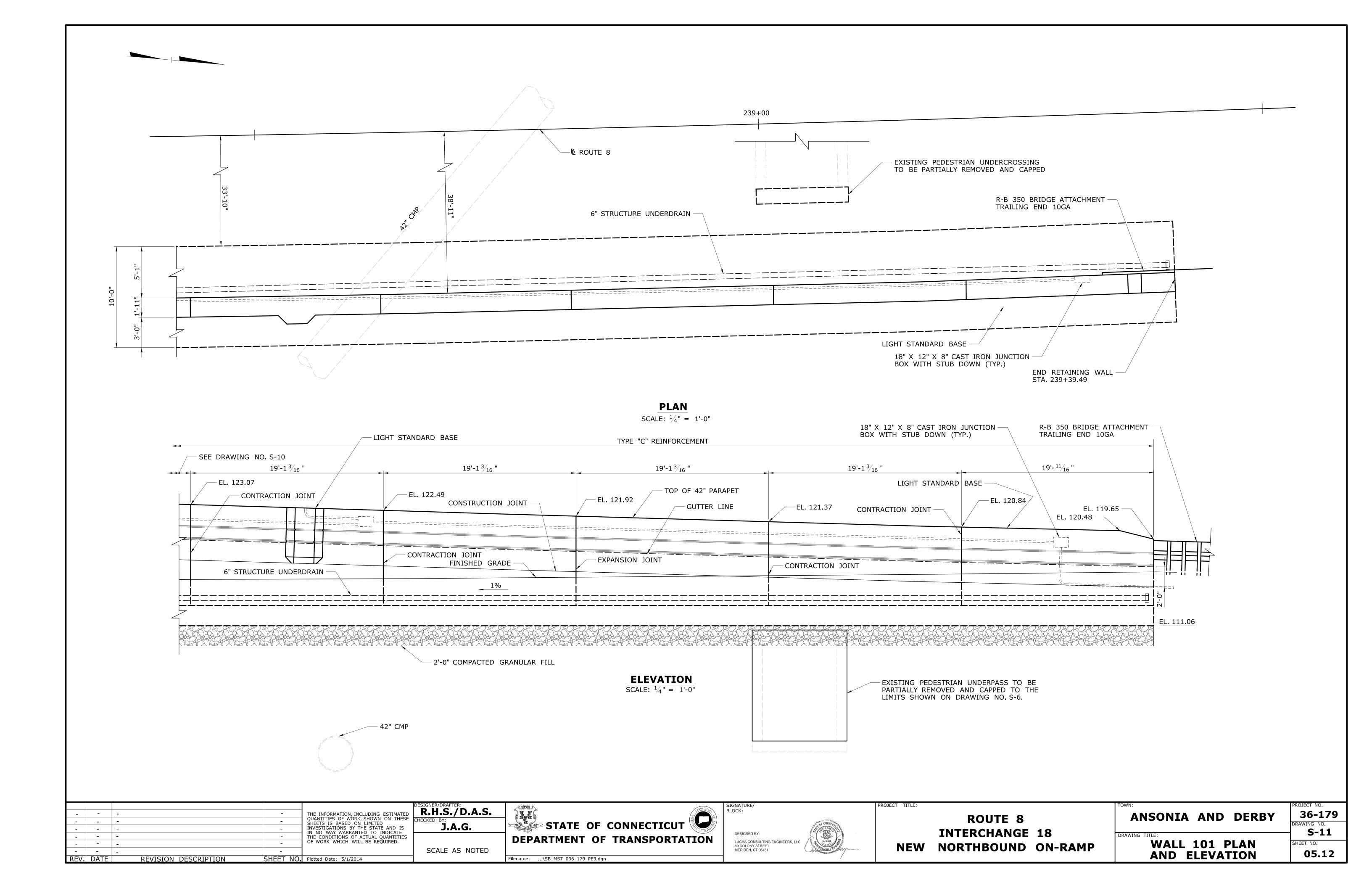
ROUTE 8 **INTERCHANGE 18 NEW NORTHBOUND ON-RAMP** **ANSONIA AND DERBY WALL 101**

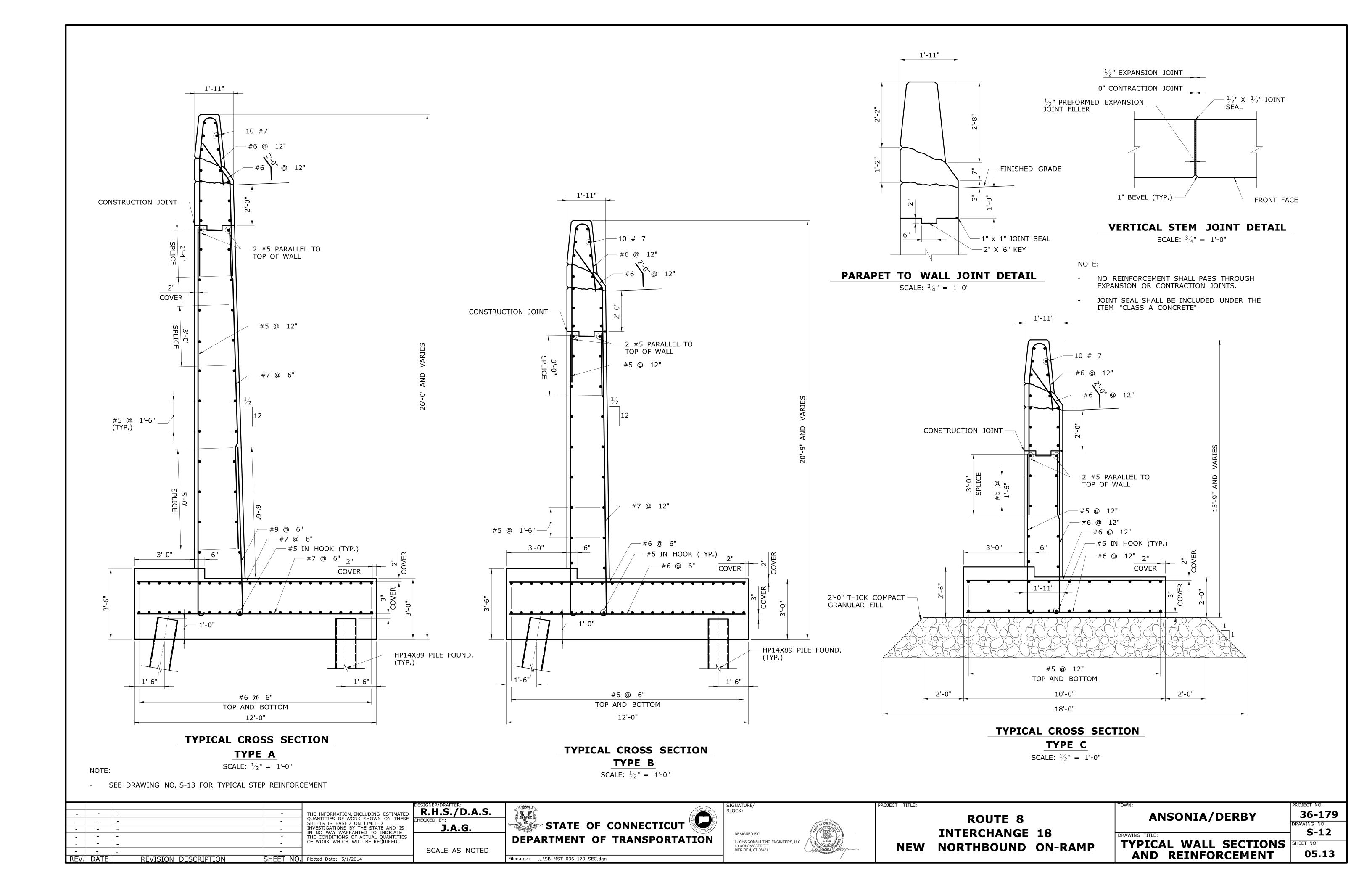
RAWING NO. **S-8** SHEET NO. 05.09 PILE LAYOUT PLAN

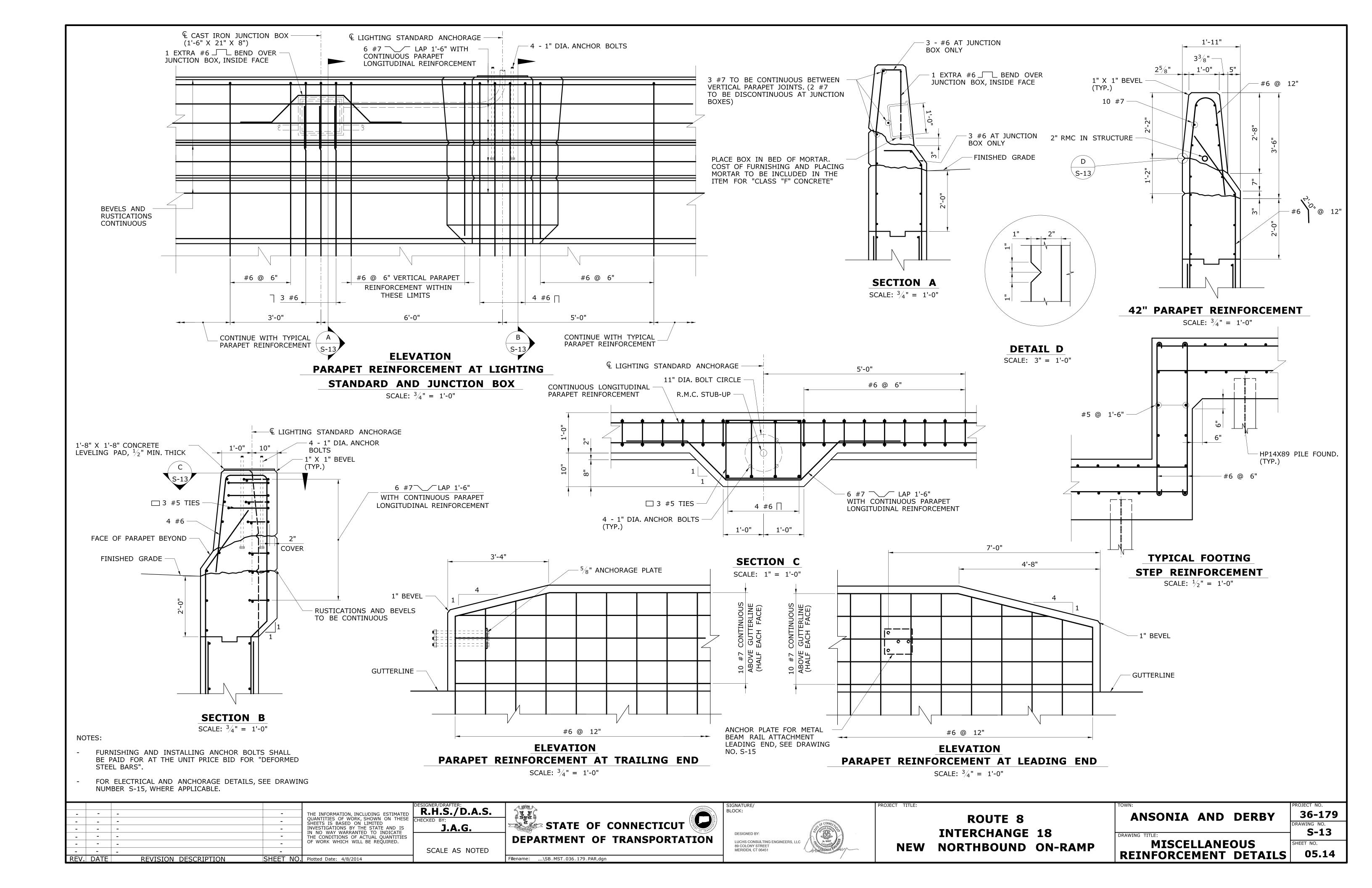
36-179

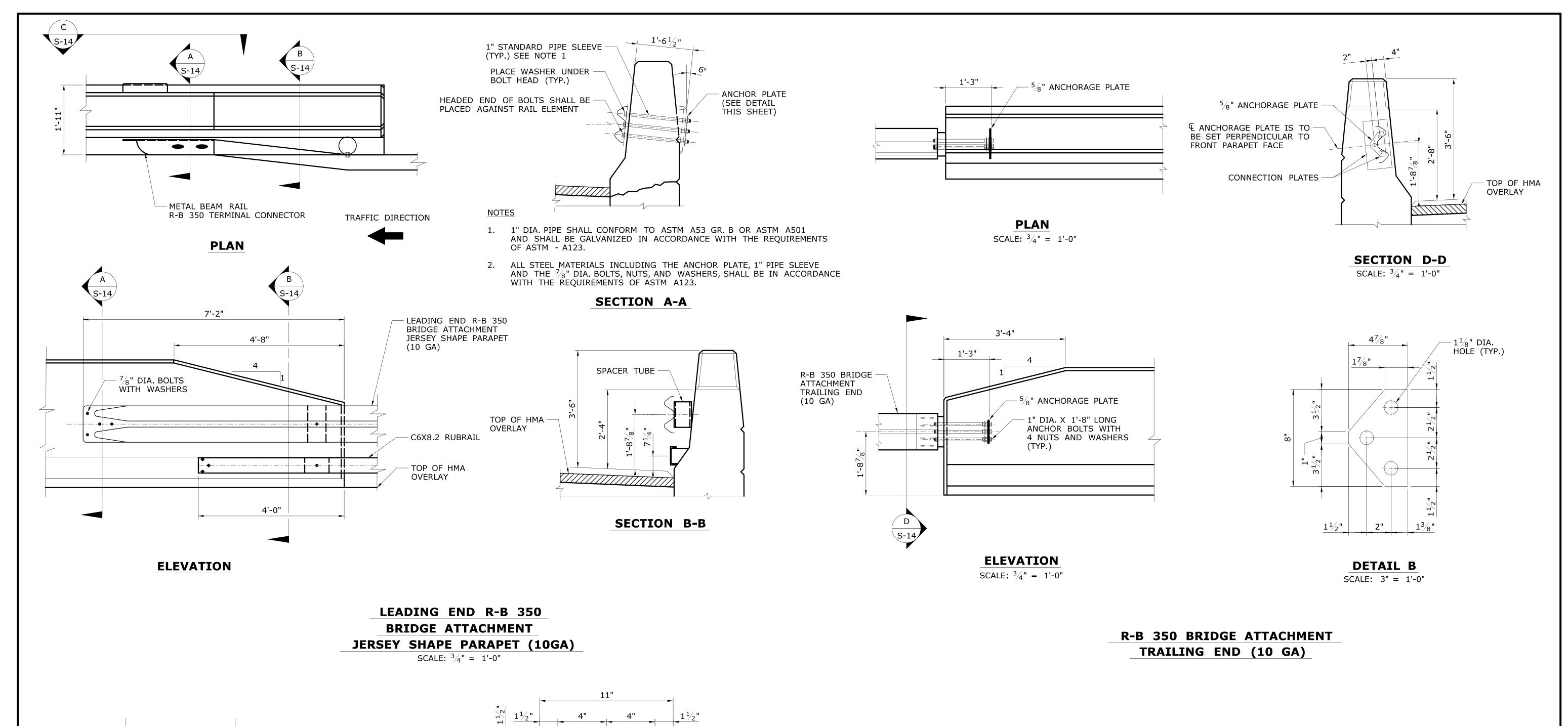










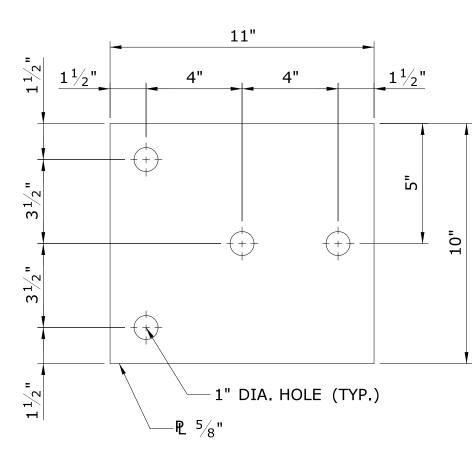


- ANCHOR PLATE (SEE DETAIL 1'-3" THIS SHEET)

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REVISION DESCRIPTION

REV. DATE



NOTE:

- LEADING END R-B 350 BRIDGE ATTACHMENT JERSEY SHAPE PARAPET (10 GA) AND R-B 350 BRIDGE ATTACHMENT TRAILING END (10 GA) TO BE PAID FOR AS ROADWAY ITEMS.

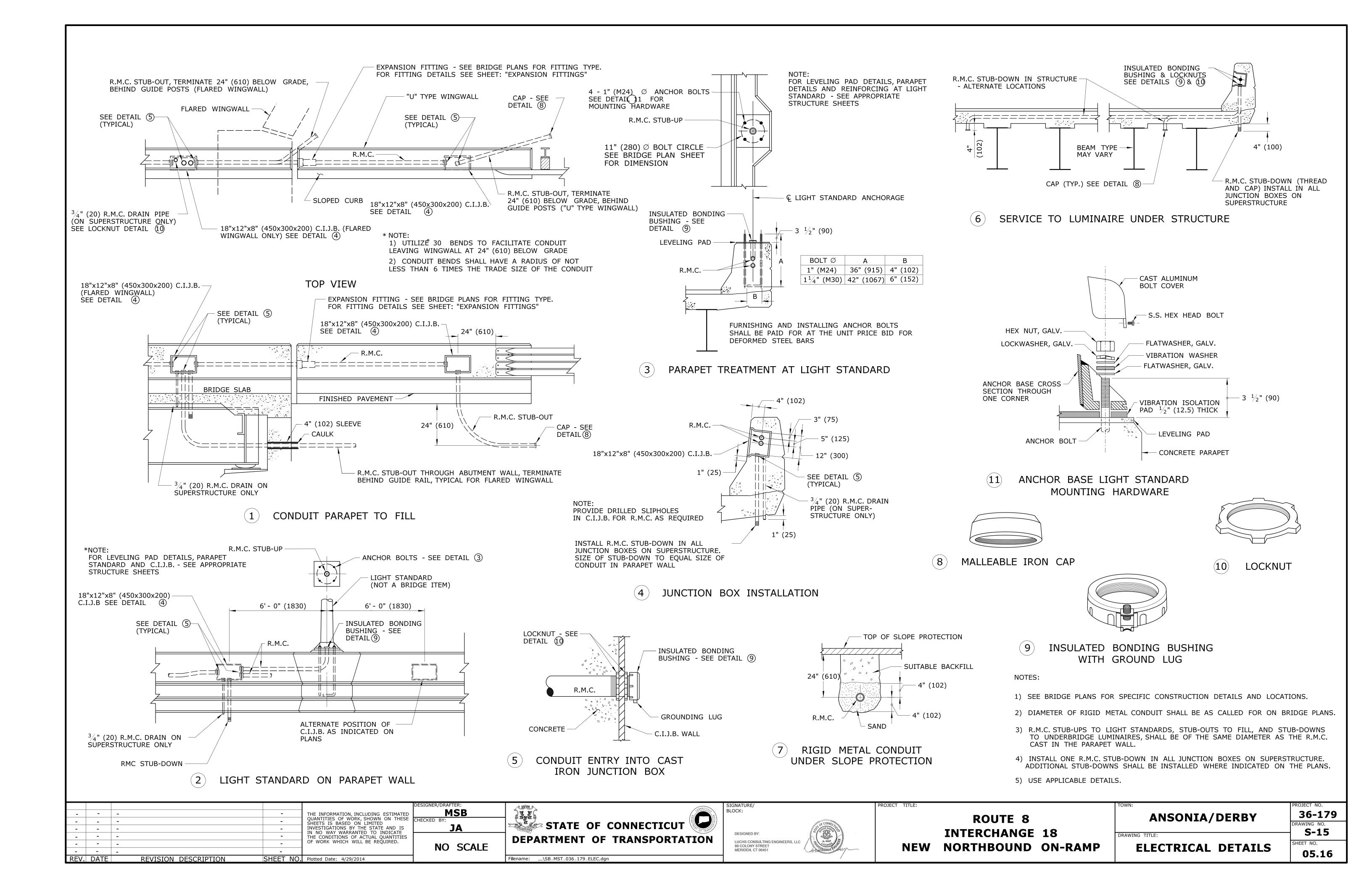
VIEW C-C SCALE: $\frac{3}{4}$ " = 1'-0"			11/2"	1" DIA. HOLE (TYP.)
	- - - - -	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: R.H.S./D.A.S CHECKED BY: J.A.G.	S. STATE OF CONDEPARTMENT OF TR

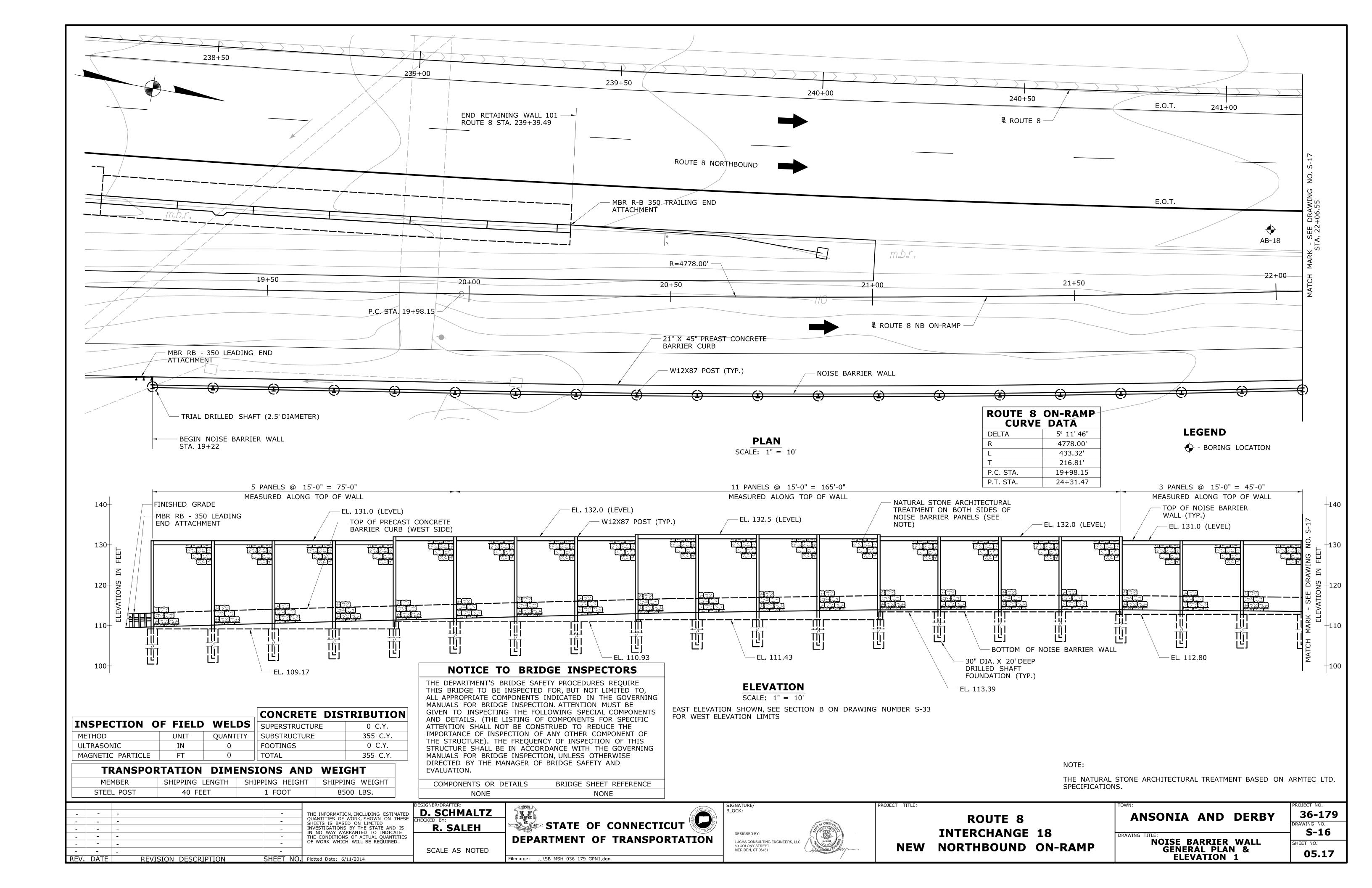
SHEET NO. Plotted Date: 6/10/2014

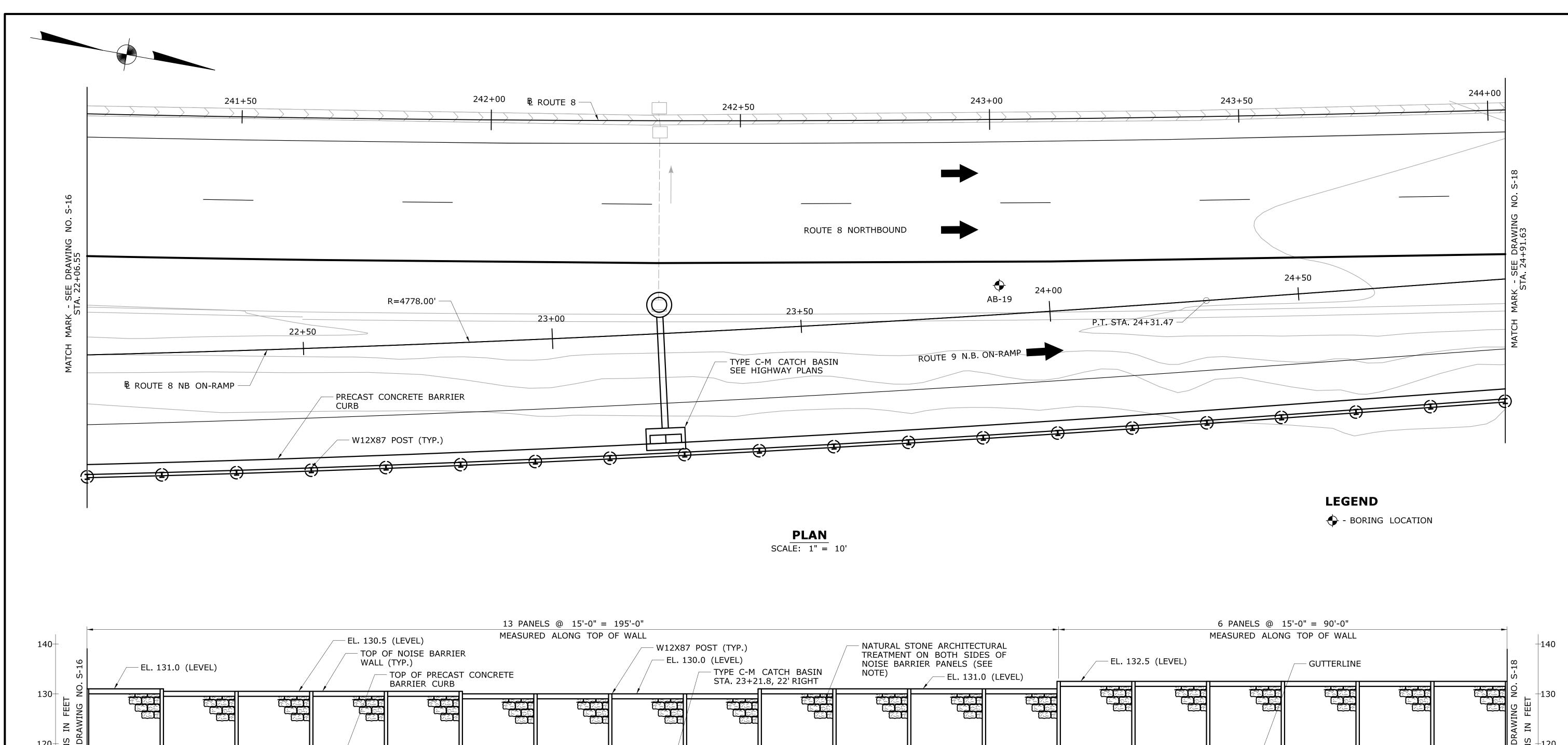
R.H.S./D.A.S. HECKED BY:	CONNECTION SO	SIGNATURE/ BLOCK:
J.A.G.	DEPARTMENT OF TRANSPORTATION	DESIGNED BY:
SCALE AS NOTED		LUCHS CONSULTING ENGINEERS, LLC 89 COLONY STREET MERIDEN, CT 06451
	Filename:\SB_MST_036_179_MBR.dgn	1

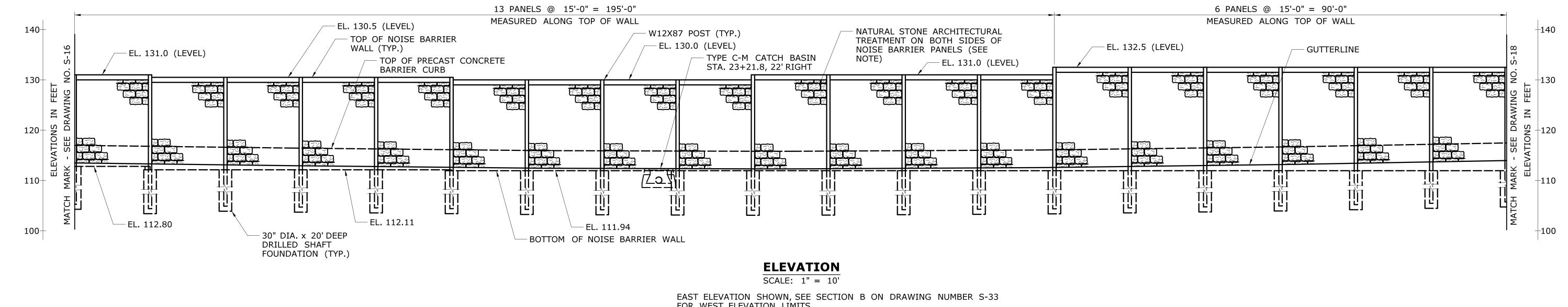
	ROUTE 8	
	INTERCHANGE	18
NEW	NORTHBOUND	ON-RAMP

TOWN:	PROJECT NO.
ANSONIA AND DERBY	36-179
DRAWING TITLE:	DRAWING NO. S-14
METAL BEAM RAIL	SHEET NO.
ATTACHMENT DETAILS	05.15







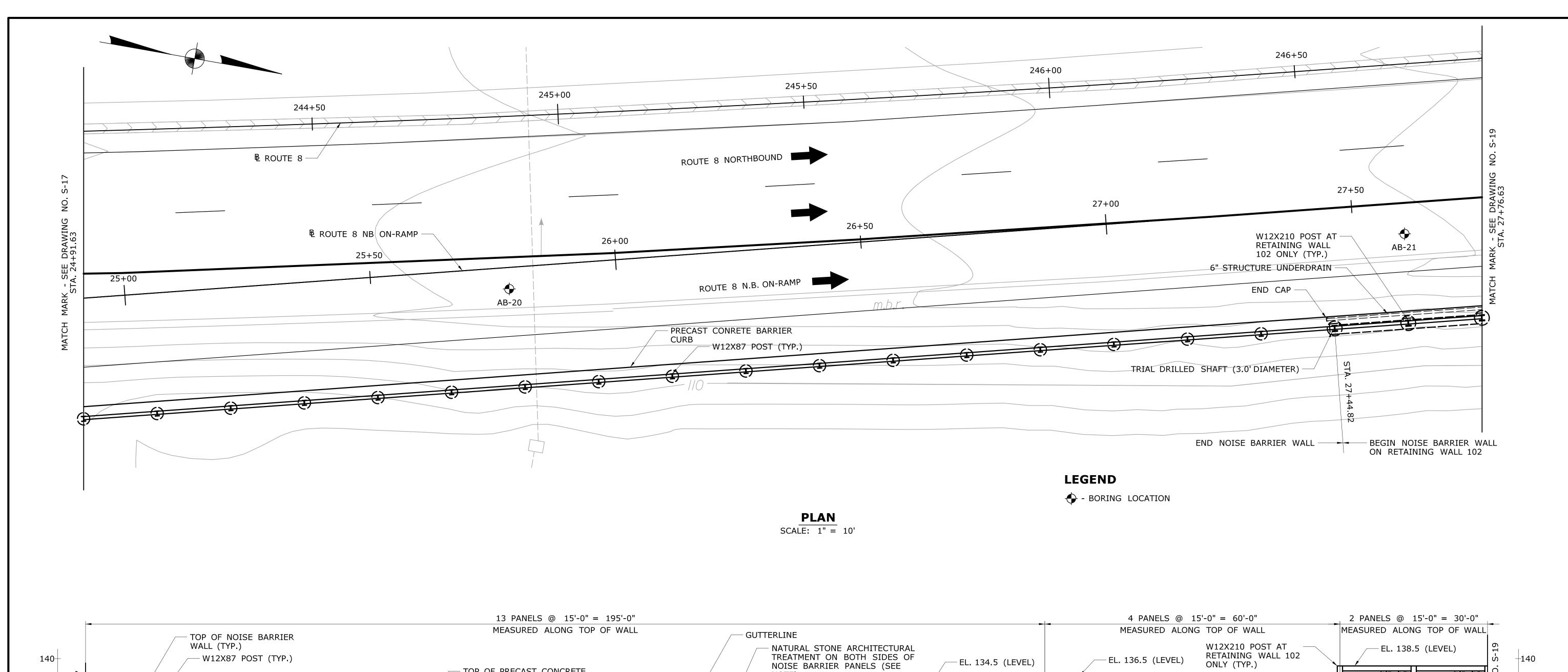


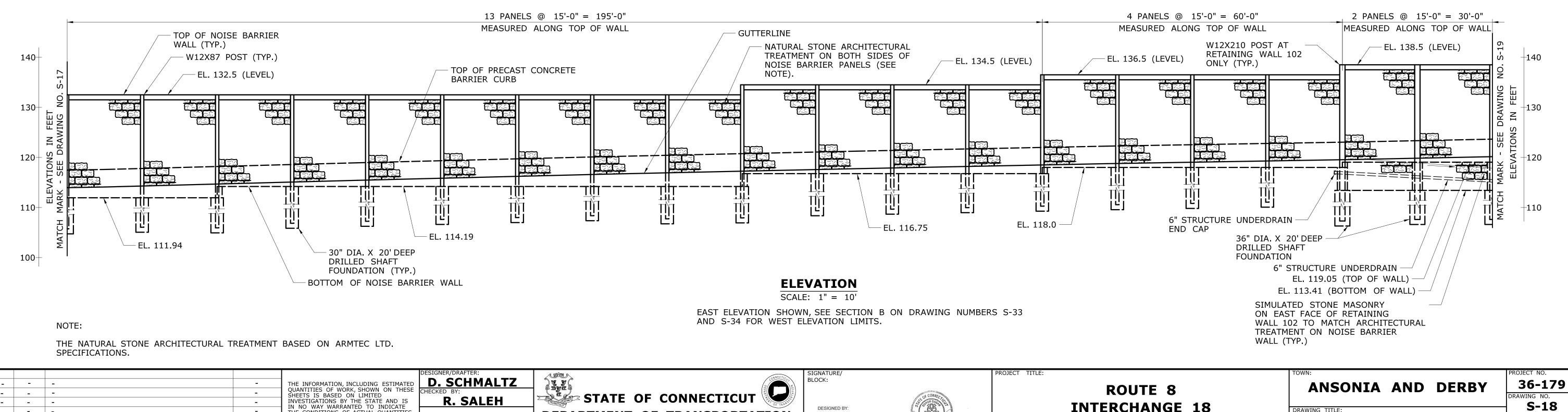
FOR WEST ELEVATION LIMITS.

NOTE:

THE NATURAL STONE ARCHITECTURAL TREATMENT BASED ON ARMTEC, LTD. SPECIFICATIONS.

		DESIGNER/DRAFTER:	ANE CE	SIGNATURE/	PROJECT TITLE:	TOWN:	PROJECT NO.
	- THE INFORMATION, INCLUDI	G ESTIMATED D. SCHMALTZ ON THESE CHECKED BY:		BLOCK:	ROUTE 8	ANSONIA AND DERBY	36-179
-	SHEETS IS BASED ON LIMI	ATE AND IS R. SALEH	STATE OF CONNECTICUT	THE CONNECTION			DRAWING NO.
	IN NO WAY WARRANTED TO	INDICATE NI SALLII	OF TEAL	DESIGNED BY:	INTERCHANGE 18	DRAWING TITLE:	─ S-17
	of WORK WHICH WILL BE	EQUIRED.	DEPARTMENT OF TRANSPORTATION			NOISE BARRIER WALL	SHEET NO.
	-	SCALE AS NOTED		89 COLONY STREET MERIDEN, CT 06451	NEW NORTHBOUND ON-RAMP		05.18
REV. DATE REVISION DESCRIPTION	N SHEET NO. Plotted Date: 5/2/2014		Filename:\SB_MSH_036_179_GPN2.dgn	7		ELEVATION 2	03.16





DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_MSH_036_179_GPN3.dgn

DESIGNED BY:

89 COLONY STREET MERIDEN, CT 06451

LUCHS CONSULTING ENGINEERS, LLC

36-179

S-18

05.19

RAWING NO.

HEET NO.

ANSONIA AND DERBY

NOISE BARRIER WALL AND

WALL 102 GENERAL PLAN

& ELEVATION 3

ROUTE 8

INTERCHANGE 18

NEW NORTHBOUND ON-RAMP

D. SCHMALTZ

R. SALEH

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

SHEET NO. Plotted Date: 6/11/2014

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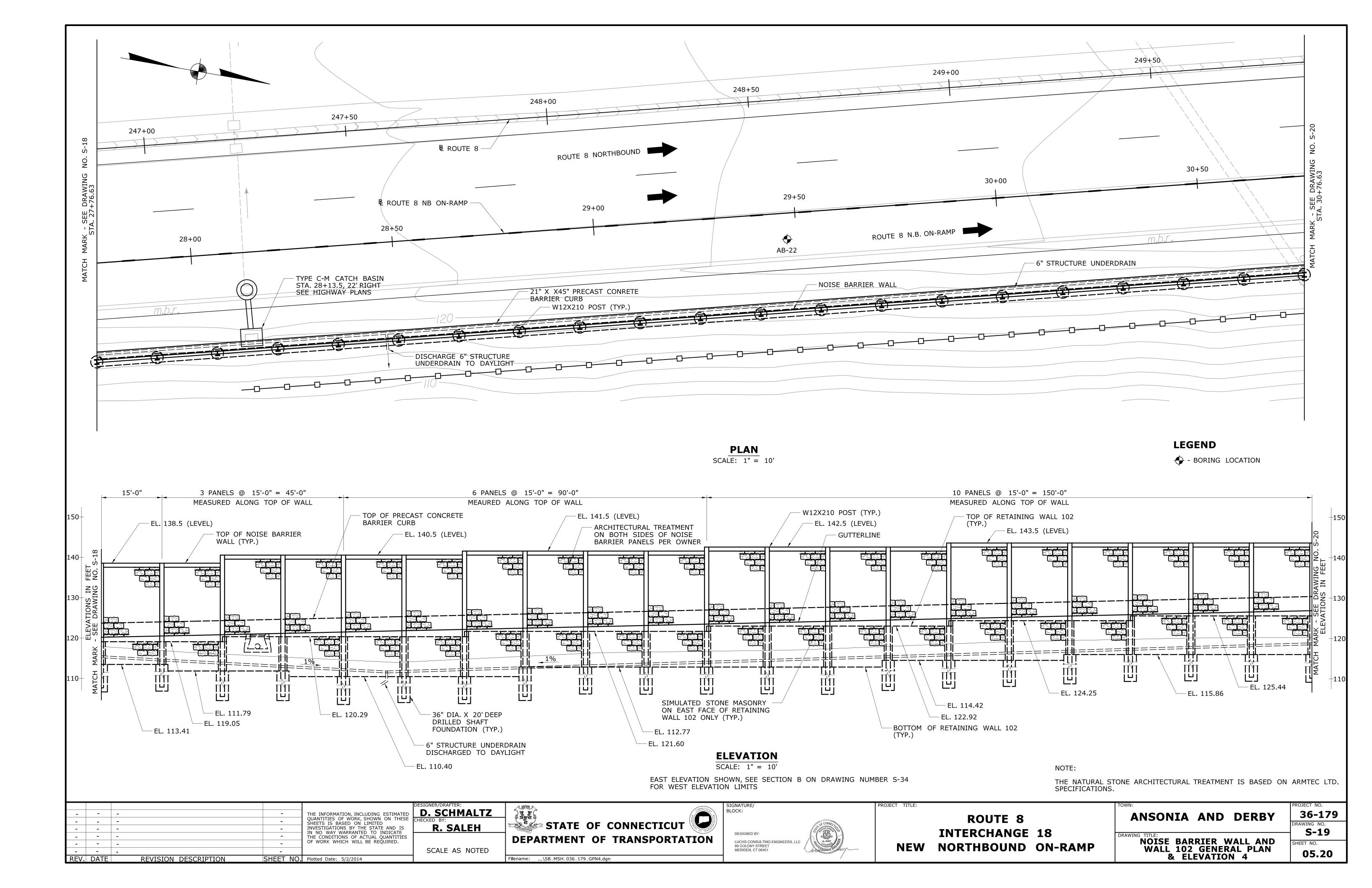
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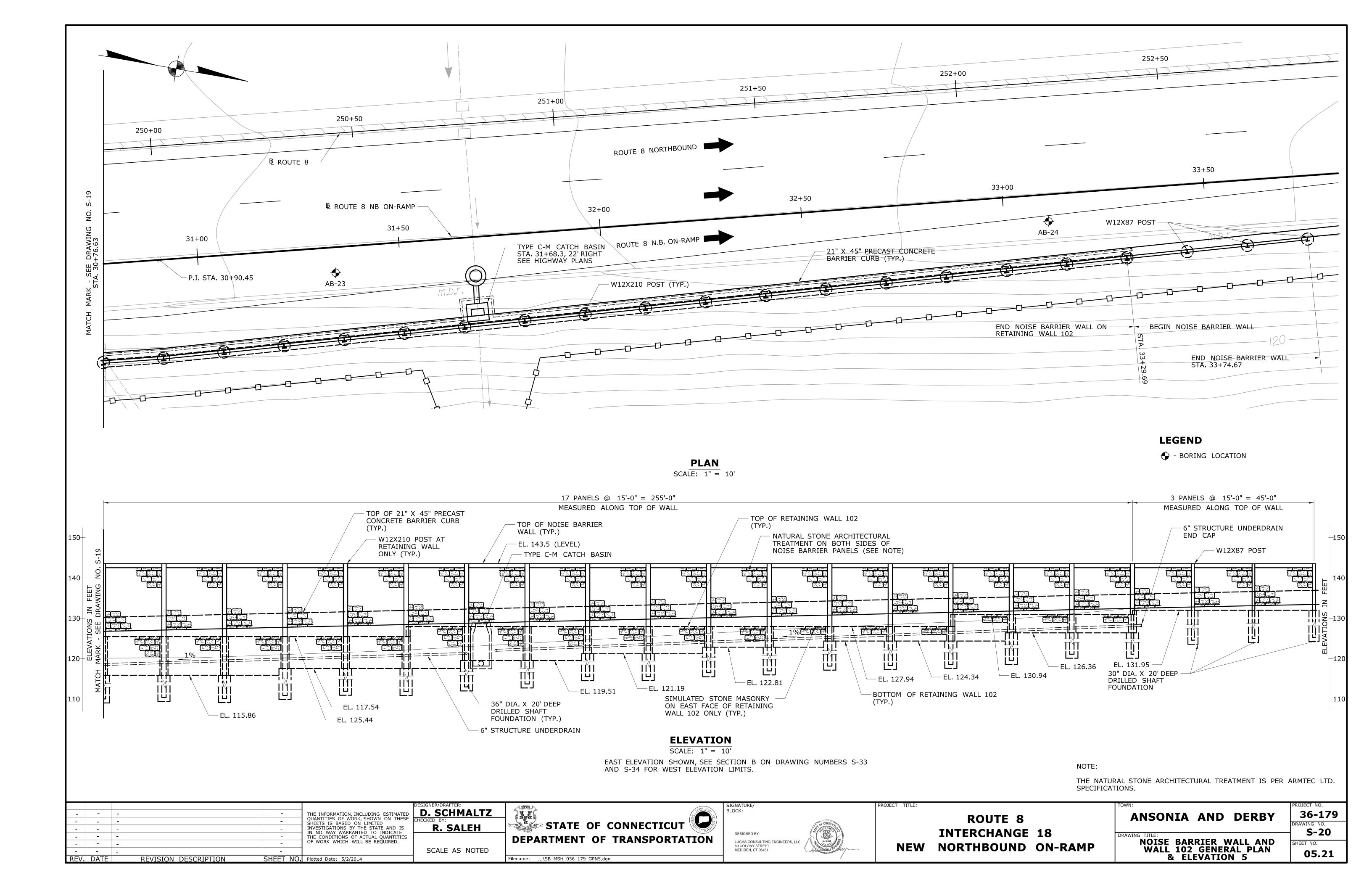
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REV. DATE

REVISION DESCRIPTION





QUANTITIES		
ITEM	UNIT	QUANTITY
COMPACTED GRANULAR FILL	C.Y.	95
PERVIOUS STRUCTURE BACKFILL	C.Y.	1350
CLASS "A" CONCRETE	C.Y.	355
SIMULATED STONE MASONRY	S.Y.	470
1" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES	S.F.	5500
DEFORMED STEEL BARS	LBS.	55000
6" C.C.M. PIPE	L.F.	10
OBSTRUCTIONS	HR.	40
FURNISHING DRILLED SHAFT DRILLING EQUIPMENT	L.S.	L.S.
TRIAL DRILLED SHAFT (2.5' DIAMETER)	L.F.	20
TRIAL DRILLED SHAFT (3.0' DIAMETER)	L.F.	20
DRILLED SHAFT (2.5 FT)	L.F.	1200
DRILLED SHAFT ROCK EXCAVATION (2.5 FT)	L.F.	60
DRILLED SHAFT EARTH EXCAVATION (2.5 FT)	L.F.	1200
DRILLED SHAFT (3.0' DIAMETER)	L.F.	820
DRILLED SHAFT ROCK EXCAVATION (3' DIAMETER)	L.F.	42
DRILLED SHAFT EARTH EXCAVATION (3.0' DIAMETER)	L.F.	820
INTEGRITY TESTING - CROSS HOLE	EA.	50
ACCESS TUBES	L.F.	4000
DAMPPROOFING	S.Y.	470
6" STRUCTURE UNDERDRAIN	L.F.	600
NOISE BARRIER WALL	S.F.	27000

GENERAL NOTES

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 816 (2004), SUPPLEMENTAL SPECIFICATIONS DATED JANUARY 2014 AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS - 6TH EDITION, 2012 WITH INTERIM SPECIFICATIONS INCLUDING AND UP TO 2013 AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003).

ALLOWABLE DESIGN STRESSES:

CLASS "A" CONCRETE BASED ON f'c = 3300 PSI

REINFORCEMENT

(ASTM A615 GRADE 60) fy = 60,000 PSISTRUCTURAL STEEL (POSTS) fy = 50,000 PSI

NOISE BARRIER WALL DESIGN CRITERIA:

(AASHTO M270 GRADE 50)

WIND VELOCITY: 110 MPH WIND PRESSURE: 38 PSF

LIVE LOAD: AASHTO HL93 LOADING

DIMENSIONS: ALL DIMENSIONS SHOWN ON THE PLANS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE GIVEN IN FEET. WHEN ELEVATIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZERO.

EXISTING DIMENSIONS: THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR REFERENCE BY THE REVIEWER.

EXISTING UTILITIES: THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND INVERT ELEVATIONS FOR ALL EXISTING UTILITIES WITHIN THE LIMITS OF CONSTRUCTION.

CONCRETE NOTES

REMAIN-IN-PLACE FORMS: THE USE OF REMAIN-IN-PLACE FORMS ON THIS STRUCTURE ARE NOT ALLOWED.

CLASS "A" CONCRETE: CLASS "A" CONCRETE SHALL BE USED FOR RETAINING WALL 102.

DRILLED SHAFTS: SEE SPECIAL PROVISIONS.

EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" x 1" UNLESS DIMENSIONED OTHERWISE.

CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE TWO INCHES COVER UNLESS DIMENSIONED OTHERWISE.

REINFORCEMENT: ALL REINFORCEMENT SHALL BE ASTM A615 GRADE 60.

PREFORMED EXPANSION JOINT FILLER: THE PREFORMED EXPANSION JOINT FILLER WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT UNDER THE ITEM "1" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES" COMPLETE IN PLACE, WHICH PRICE SHALL INCLUDE ALL MATERIALS, EQUIPMENT, TOOLS, LABOR AND WORK INCIDENTAL THERETO.

NOISE BARRIER WALL: SEE SPECIAL PROVISIONS.

LIST OF NOISE BARRIER WALL MANUFACTURERS

ARMTEC LTD. 8270 GREENSBORO DRIVE MCLEAN, VA 22102 (860) 873-1737

CONCRETE INNOVATION SERVICES 4212 LAFAYETTE CENTER DRIVE SUITE 1-A CHANTILLY, VA 20151 (703) 222-9702

CONCRETE SOLUTIONS, INC. 3300 BEE CAVE ROAD, SUITE 650 AUSTIN, TX 78746 (512) 327-8481

STRUCTURAL STEEL NOTES

- 1. ALL STRUCTURAL STEEL (LOW ALLOY) POSTS, CONNECTION PLATES, AND MISC. HARDWARE SHALL CONFORM TO AASHTO M270, GRADE 50, Fy = 50,000 PSI, AND SHALL BE HOT DIPPED GALVANIZED.
- 2. THE CONTRACTOR SHALL TAKE THE PROPER PRECAUTIONS DURING CONSTRUCTION TO INSURE THE STABILITY OF ALL STRUCTURAL ELEMENTS UNTIL THE TOTAL STRUCTURE IS IN PLACE.
- 3. LENGTH DIMENSIONS ARE HORIZONTAL.
- 4. THE W12X87 STEEL POSTS SHALL BE USED WITHIN THE LIMITS OF THE NOISE BARRIER WALL ONLY. THE W12X210 STEEL POSTS SHALL BE USED WITHIN THE LIMITS OF THE NOISE BARRIER WALL AND RETAINING WALL 102 COMBINED.

					DESI
_	-	-	-	THE INFORMATION, INCLUDING ESTIMATED	
_	-	-	-	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED	CHEC
-	-	-	-	INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE	
_	1	-	-	THE CONDITIONS OF ACTUAL QUANTITIES	
-	1	-	-	OF WORK WHICH WILL BE REQUIRED.	
_					

SHEET NO. Plotted Date: 6/11/2014

REVISION DESCRIPTION

REV. DATE

D. SCHMALTZ R. SALEH

SCALE AS NOTED



SIGNATURE, BLOCK: DESIGNED BY LUCHS CONSULTING ENGINEERS, LLC 89 COLONY STREET MERIDEN, CT 06451

ROUTE 8 **INTERCHANGE 18 NEW NORTHBOUND ON-RAMP** **ANSONIA AND DERBY**

NOISE BARRIER WALL & **WALL 102 GENERAL NOTES**

36-179

S-21

05.22

RAWING NO.

HEET NO.

Filename: ...\SB_MSH_036_179_GEN.dgn

Oriller:	laime L	loret			C	onne	cticu	t DOT Borii	ng Report	Hole No.:	AB-18	
	R. Beni		1	1	own:		Anso	and state beauty becomes and			21+99/15.43 LT	
oil Engr: Ap	olied E	arth 7	Tech.	. Р	roject	No.:	36-17	76		Northing:	905960.6	
tart Date:	2-11-1	13		L	ocation	n:	Route	e 8		Easting:	685627.59	
inish Date: 1	2-11-1	13		В	ridge N	Vo.:		THE PERSON NAMED IN COLUMN TO SERVICE OF THE PERSON NAMED IN COLUMN TO SERVICE		Surface Eleva	tion: 113.9	
roject Descrip	tion: F	Route	8 Ra	amp 1	8 Nort	th				Prime Engine	er: Decalo & Dol	I
asing Size/Ty	pe: 3.2	5 in l	ΗA	S	ample	г Туре	/Size:	SS 2.0 in		Core Barrel Ty	ype: NX diamon	d
ammer Wt.:		Fall:		Н	lamme	r Wt.:	140 II	os Fall: 30 in	ROPE		ssociate Borings	
roundwater C	bserva	tions:	@V	Vater:	at 15 f	eet a	after o	oring water at	21 feet after 1 ho	ours		
		5	SAME	PLES		11.50		70				æ
Sample Type/No.	p	La Contract of the Contract of	s on pler inche		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Ma	terial Descrip and Notes	tion	Elevetion (#)
0 0/-					-	-						
- S-1	11	13	17	12	24	8		ASPHALT BRN FC SAND SOME FC	6 in asphalt . Brown fine coars gravel, little silt, o			-
5 S-2	13	50			12	8		GRAVEL, LTL SILT, FILL	Brown fine coars gravel, little silt, o			-1 ¹
10												_ -10
- S-3	1	5	6	8	24	12		BRN F	Brown fine sand	and silt, trace o	rganics.	
- S-4	9	11	9	12	24	10		SAND & SILT BRN FC	Brown fine sand	and silt, trace o	rganics.	-10
15 - S-5	8	10	10	12	24	14		SAND SOME SILT	Brown fine coars	e SAND, some	silt.	
20 - S-6	4	4	6	9	24	21			Brown fine coars	e SAND, some	silt.	-95 - -
25 - S-7	2	5	9	10	24	14		GRY BRN F SAND & SILT	Gray brown fine	SAND and silt,	laminations.	-90 - - -
30 S-7	7	8	13	14	24	24		GRY BRN FC SAND LTL SILT	Gray brown fine	coarse SAND, I	ittle silt.	-85 - - -
35 C-1					60	40	20	GRY SCHIST	Gray slightly wea interlayered SCH			-80 - - - - -75
40									END OF BORING	G 40ft		
	1070		THE STATE OF						ndisturbed Piston %, Some = 20 -			
tal Penetration	on in				NOT	ES: (CME 5	5 Truck Mounte	ed Rig was used.	-	She	1.00
arth: 35ft	Rock	5ft									1 of	1
o. of		o. of	400.00									
oil Samples:		ore R		55				450, Tel: 203-634-91	10 A-2		SM-001-AE	:Trev.9

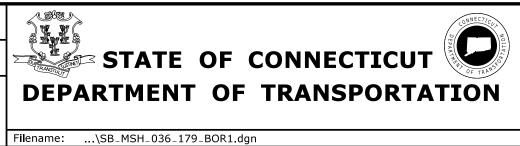
Oriller:	Já	aime L	loret			Co	nne	cticu	ıt DOT Boriı	ng Report	Hole No.: AB-	19	
nspect	tor: R	Beni	wal		1	own:		Anso	nia		Stat./Offset: 23+	90/5.84 LT	
oil En	gr: App	lied E	arth	Tech.	F	Project	No.:	36-17	76	Northing: 905	928.72		
Start Da	ate: 12	2-11-1	3		Į.	ocation	n:	Route	e 8	Easting: 685	815.87		
Control of the Contro	Date: 12	A STATE OF	55.00		-	Bridge N				Surface Elevation:	C PRINCES CONTROL		
Project	Descripti	on: F	Route	8 Ra	amp 1	8 Nort	h			Prime Engineer: D	ecalo & Do	11	
Casing	Size/Typ	e: 3.2	5 in l	HA	S	Sample	г Туре	/Size:	SS 2.0 in		Core Barrel Type:		
Hamme	er Wt.:		Fall:		H	lamme	r Wt.:	140 II	os Fall: 30 in	ROPE	Boring Co: Assoc	iate Borings	s CO.
Ground	lwater Ob	serva		700		at 19 fe	eet		1				3
2			,	SAME	PLES			1					€
Depth (ft)	Sample Type/No.	p	San	/s on opler inche		Pen. (in.)	Rec. (in.)	RQD%	Generalized Strata Description	M	aterial Description and Notes		Elevation
0-	S-1	15	24	18	22	24	8		ASPHALT / BRN FC SAND		se SAND, some fine		_
-									SOME FC	graver, illue silt,	occasional cobbles,	mil.	-110
5-	S-2	10	35	50/2"		14	8		GRAVEL, LTL SILT,	Brown fine coar	se SAND, some fine occasional cobbles	coares	Ł
1		110	-	CUIL		3.0	•		FILL	boulders, fill.	occasional commos	arra	F
_													- -105
10-									BRN ORGANIC F				- "
-FEE	S-3	3	4	4	5	24	9		SAND &	Brown organic f	ine sand and silt.		5 — 66
5770 1770									SILT /				
15	:								SAND				-100 -
-	S-4	2	5	8	9	24	12		SOME SILT	Brown fine SAN	ID some silt.		5 — 6
1700										10			
1700													-95
20	S-6	2	7	17	20	24	11		BRN FC	Brown fine coar	se SAND, some silt.		
ATE A	50-10 V7	C Table					- E.S.		SAND SOME SILT	Drown line coal	SC SAND, SOME SIL.		5 - 3
7.11													-90
25-).	1.00	1000	20221-02-V	2211241				1000000			5 - 8
	S-7	3	15	20	24	24	10			Brown fine coar	se SAND, some silt.		
17.0									GRY				- -85
30-	C-1					60	22	10	SCHIST	Grav weathered	d, medium grained in	terlavered	-00
STATE OF THE STATE	C-1					bU	22	10		SCHIST and gra		iona) or ou	Ė
nr										<u>=0</u> 6 006 5095		22	-80
35-	C-2					60	27	23			athered, medium gra HIST and granofels.	ined	3=8
-711													
100										END OF FOR	10.000		-75
40-										END OF BORIN	NG 38ft		
-741													3 — 6
			rese	Page 200		- 100 m					n V = Vane Shear		
	F	ropo	rtions	Use	d: Ti	race =	1 - 10	D%, I	Little = 10 - 20	%, Some = 20	- 35%, And = 35	- 50%	
Total P	enetratio	n in				NOT	ES: (CME 5	5 Truck Mounte	ed Rig was used.		She	
Earth: 2	28ft	Rock				.1						1 0	1
No. of Soil Sa		N	o. of ore R			7							

Driller:	J	aime L	loret	1		Co	nne	cticu	it DOT Borir	ng Report	Hole No.:	AB-20	ŀ
Inspect		Beni			9	Town:		Anso	nia		a C. accessorate engineers are	25+78/4.37RT	
	gr: App	and the state of	3.50	Tech.		Project I	No.:	36-17	76			905892.95	
Start D		2-12-1				Location		Route	e 8			686000.53	8
Finish [100 Page 100	2-12-1	5.0			Bridge N	(E)		7 . 7.	`	Surface Eleva	Carlotte All Carlotte and Carlo	C.
A A STATE OF THE S	Descript	CAS INCIDENT AND		8 Rs		The state of the s				2		er: Decalo & Do	oll
		20-92-929		Market Company	<u> </u>				00.00:-			Maria and an	
	Size/Typ	e: 3.2		IA	_			W. 8945505	SS 2.0 in	DODE		ype: NX diamor ssociate Boring	
Hamme			Fall:	C 14				140 1	bs Fall: 30 in	ROPE	Boring Co. As	ssociate Boning	S CO.
Ground	water Ol	servat					eet		T T				4
-		ĺ	3	SAME	LES) 			Generalized Strata Description				€
Œ	a 2		Blow	s on		(iii	E.	%	aliz ptic	Ma	iterial Descript	tion	Elevation
Depth (ft)	Sample		Sam	pler		=		0	Sci at a		and Notes		vat
Del	Sar	р	er 6 i	inche	S	Pen.	Rec.	ROD	Str				<u>0</u>
0-													
						4.0	40		ASPHALT /	6 in asphalt. Brown fine coars	e SAND some	fine coarse	-115
-	S-1	24	17	14	15	18	10		BROWN FC	gravel, little silt, o			_
									SAND & FC GRAVEL				<u></u> 8
5-									LTL SILT	Daniel Face and a	- CAND		
-	S-2	24	26	29	22	24	4		FILL	Brown fine coars gravel, little silt, o			-110
I												HARLES M. MEDERAL	
_													L
10-		40	20	45	45	24	40			Gray brown fine	coarse SAND s	some coarse fine	
	S-3	12	32	15	15	24	12			gravel, little silt, o			-105
_										DI 1	CAND 4		
									BLK ORGANIC F	Black organic fir	ne SAND and si	it .	<u> </u>
15—	S-4	2	3	10	11	24	18		SAND &	Danier English	- CAND	w.	400
4	3-4	_		10	•	24	10		SILT	Brown fine coars	e SAND and si	L	-100 -
-									BRN FC SAND &				 -
20									SILT				5756 11.00
-	S-5	4	6	10	12	24	0		BRN F SAND &	Brown fine SAND	and silt		-95
+									SILT				
25-													
-	S-6	1	2	4	6	24	24			Brown fine SAND	and silt, trace	silt, laminations.	-90
]		1											
4													
30-		_					_		BRN FC	Brown fine coars	e SAND some	to little fine	1
1	S-7	6	13	18	32	24	6		SAND	coarse gravel, tra			-85
4									SOME FC GRAVEL				
									1000				
35-	S-8	1	7	21	20	24	6			Brown fine coars		to little fine	- -80
4	J-0		•	-1	20					coarse gravel, tra			_ 8U
-													-
40													
		Samp	le Ty	pe:	S = 5	Split Sp	oon	C = 0	Core UP = Un	disturbed Piston	V = Vane SI	near Test	
		10 m		T. Carrier		_ *				%, Some = 20 -			
Total P	enetratio)	W. 4365.T			100	m ====	acedan.	CARPTERS ROSE TEXTER	d Rig was used.	STATES OF THE STATES	E	eet
Earth:	electric Appreciati	Rock:	5#			1,01			- I was mounto				of 2
No. of	to.oit		o, of										
	mples: 9			uns: 1	1							SM-001-A	ETrev.9/09

Applied Earth Technologies, Inc., 571 Bee Street, Meriden, CT 06450, Tel: 203-634-9110 A-4

-	-	-	ı	THE INFORMATION, INCLUDING ESTIMATED
-	-	-	1	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED
-	-	-	1	INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE
-	-	-	-	THE CONDITIONS OF ACTUAL QUANTITIES
-	-	-	-	OF WORK WHICH WILL BE REQUIRED.
-	-	-	-	
EV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/5/2014

D. SCHMALTZ
CHECKED BY:
R. SALEH





ROUTE 8 INTERCHANGE 18 NEW NORTHBOUND ON-RAMP

ANSONIA AND DERBY
DRAWING TITLE: NOISE BARRIER WALL AND
WALL 102 BORING LOGS 1

36-179
DRAWING NO.
S-22 05.23

Driller:	Jä	aime Lle	oret			C	nne	cticu	t DOT Borii	ng Report	Hole No.:	AB-20	
nspecto	The state of the s	. Beniw		g var	_	own:		Anso	-01-41.		Stat./Offset:	25+78/4.37F	RT
oil Eng	gr: App	lied Ea	rth T	ech.	F	Project	No.:	36-17	6		Northing:	905892.95	
Start Da	MARKALL MA	2-12-13			L	ocation	1:	Route	8		Easting:	686000.53	
A CONTRACTOR OF THE PARTY OF TH)ate: 1.	les and the second		Tarier - War To	-	Bridge N					Surface Elev	SUDDER MANAGEMENT AND STREET OF STREET STREET,	5
Project	Descript	ion: Ro	oute	8 Ra	mp 1	8 Nort	h				Prime Engine	eer: Decalo &	Doll
Casing	Size/Typ	e: 3.25	in H	IA	S	Sample	r Type	/Size:	SS 2.0 in			Гуре: NX diam	
lamme	er Wt.:	F	all:		F	lamme	r Wt.:	140 lb	os Fall: 30 in	ROPE	Boring Co: A	kssociate Bori	ngs CO.
Ground	water Ok	servatio					eet		·	-			a Po
-			S	AMP	LES				8 -				€
£	o 9	F	Blows	son		(in.)	(in.)	vo.	Generalized Strata Description	N	Material Descrip	otion	Elevation (ft)
#	<u>e</u> =	5	Sam	pler		=		0	ata scrij	155	and Notes		vati
Depth (ft)	Sample Type/No.	pe	r 6 ir	nches	5	Pen.	Rec.	RQD%	Str				E O
40	1100							i i para la					_
-	S-9	10	14	28	19	24	9			Brown fine coa gravel, trace si	rse SAND, little lt.	fine coarse	-75
1										<u></u>	-		
╡								,	GRY				<u> </u>
45-	C-1					60	22	15	SCHIST	Gray slightly w	eathered, mediu	m grained	
_	0-1					00	22	15		interlayered SC	HIST and grand	ofels.	-7 0
4													
50-										END OF BORI	NG 48.5ft		
-													-65
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80—		Sample	e Tvn	e: :	S = S	plit Sr	oon	C = C	ore UP = Ur	ndisturbed Pisto	n V = Vane S	Shear Test	
			40 Steel							%, Some = 20			
otal Da	enetratio	o come and come on the					1/11			ed Rig was used.	wi rand	energy certaining	Sheet
		Rock:	58			1,01	\	JIME J	o Track Mounte	a ray was used.			2 of 2
arth: 4	HC.C+	No.											
	mples: 9			ns: 1								SMLOO	I-AETrev.9/

riller:	Jai	me L	loret			Co	nne	cticu	t DOT Borir	ng Report	Hole No.: AB-21	
spector:	R.	Beni	wal		1	own:		Anso	nia		Stat./Offset: 27+60/6.29 RT	3
oil Engr:	Applie	ed Ea	arth 1	ech.	F	Project I	No.:	36-17	76	Northing: 905850.32		
tart Date:	: 12-	13-1	3		L	ocation	1:	Route	e 8	Easting: 686177.81		
inish Dat	e: 12-	13-1	3		E	Bridge N	lo.:			Surface Elevation: 119.9		
roject De	scriptio	n: R	oute	8 Ra	amp 1	8 Nort	h				Prime Engineer: Decalo & Do	I
asing Siz	e/Type	3.2	5 in F	IA	5	Sample	Type	/Size:	SS 2.0 in		Core Barrel Type:	
lammer V			Fall:					90 000-00-0	os Fall: 30 in	ROPE	Boring Co: Associate Borings	CO.
roundwa	ter Obs	ervat	ions:	@٧	/ater	at 25	feet				-	
			5	SAME	PLES			=	-			9
	Type/No.		Blow Sam er 6 i	pler		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	М	laterial Description and Notes	Elevation (ft)
0 - 3	S-1	18	20	16	25	24	8		ASPHALT GRY BROWN FC SAND & FC GRAVEL		rse SAND and fine coarse gravel, t, occasional cobbles, fill	- - - -
5 - 5	5-2	5	15	20	15	24	8		LTL SILT, BOULDERS, FILL		e coarse SAND, and fine coarse nal cobbles and boulders.	-11 - -
10-										Boulders at 8 a	nd 12 feet	- 11
15 - 5	5-3	7	14	36	31	24	10		-x=0=		e coarse SAND, and fine coarse nal cobbles and boulders.	-10 -
20- 5	S-4	2	5	8	13	24	14		GRY F SAND & SILT	Gray fine SAND	o and silt, trace organic at 19 feet.	- -10
	S-5	14	17	13	14	24	18		GRY BRN F SAND SOME SILT	Gray fine SANE Brown fine SAN	D and silt. ID, little to some silt, laminations.	-95 -
30	S-6	3	5	4	4	24	24			Brown fine SAN	ID, little to some silt, laminations.	-
	5-7	1	4	6	6	24	18			Gray fine SANE	O, little to some silt, trace clay.	-85 - - -
40-	Pı	opor	-3140 ST-1	Second Second		race =	1 - 10	0%, I	Little = 10 - 20	%, Some = 20	n V = Vane Shear Test - 35%, And = 35 - 50%	_L_80
otal Pene	er er	ered total	200005400			NOT	ES: (JME 5	o Iruck Mounte	d Rig was used.	She 1 o	
arth: 62f	t f	Rock:										
o. of	les: 12		o. of	uns: (SM-001-AB	

Driller:	Já	aime L	loret			C	onne	cticu	t DOT Bori	ng Report	Hole No.:	AB-21	
Inspect	The St.	. Beni	3.50		_	Town:		Anso	A. A		Stat./Offset:	27+60/6.29 RT	
Soil En	gr: App	lied E	arth 1	Гесh.	. F	roject	No.:	36-17	76		Northing:	905850.32	
Start D	ate: 12	2-13-1	3		L	ocation	n:	Route	e 8		Easting:	686177.81	
Mark Street, or other trans-	Date: 12	JS I Maried Ale	100			Bridge 1	TOTAL CONTRACTOR				Surface Elev	CONTRACTOR DE PROVINCIO	
Project	Descripti	on: R	oute	8 Ra	amp 1	8 Nor	th				Prime Engine	er: Decalo & Doll	,
Casing	Size/Typ	e: 3.2	5 in F	IA.	5	Sample	r Type	/Size:	SS 2.0 in		Core Barrel T	ype:	
Hamme	er Wt.:		Fall:		F	lamme	r Wt.:	140 II	bs Fall: 30 in	ROPE	Boring Co: A	ssociate Borings	CO.
Ground	water Ob	servat	ions:	@W	/ater	at 25	feet		T.				T.
			5	SAME	PLES				9 -				2
æ	. 0		Dlow	s on		(ju)	(in.)		Generalized Strata Description	M:	aterial Descrip	otion	Elevation (ft)
ŧ	eN N		A Control of the Control	pler		<u>=</u>	<u></u>	%	ori ta		and Notes		/ati
Depth (ft)	Sample Type/No.	p	er 6 i	nche	S	Pen.	Rec.	ROD	Stra				<u> </u>
40-	07 [-	-	L.					-
- - -	S-8	2	3	5	5	24	24		GRY BRN F SAND SOME SILT (con't)	Gray fine SAND	, little to some :	silt, trace clay.	<u> </u>
45-													_ ₇₅
\dashv	S-9	3	5	15	41	24	24			Gray fine SAND	, little to some s	silt, trace clay.	+
Ī													
\dashv													-
50-	S-10	12	15	12	21	24	12		BRN FC	Brown fine coan	se SAND and fi	ne coarse gravel,	-70
4	3-10	12	13	12	21	24	12		SAND & FC GRAVEL	trace silt.			_
-													
55													_ ₆₅
-	S-11	7	10	13	20	24	8			Brown fine coars trace silt.	se SAND and fi	ne coarse gravel,	-
₫										uace sit.			
4													-
60-	C 43	40		40	75	1 24	6			Brown fine coars	se SAND and fi	ne coarse gravel,	-60
4	S-12	10	11	40	/5	24	0			trace silt.			_
\dashv										EVID OF DODA	10.000		-
65										END OF BORIN	IG 62ft		- -55
-													<u> </u>
Ⅎ													
4													-
70-													-50
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4													=
7 <u>-</u> -													- -45
75- -													-43
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╛													_
80					Harris .	Whit men			entropy of the state of the sta	Web room as the second	A MAN MAN MAN MAN	an and the	_40
		10710		Till and the		57				ndisturbed Pistor %, Some = 20			
otal P	enetratio		20110				200	- Lamberdan -	Secretary Secretary Comme	ed Rig was used.	oore, raid.	She	et
arth:	NAME OF STREET	Rock:	Off									2 of	
No. of	UZIL		o. of			\dashv							
W. OIL		2 C		and the same of	-	- 1							

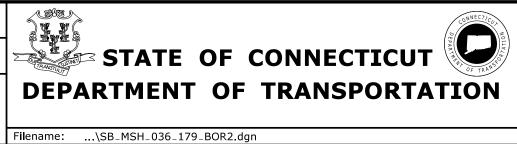
					D
-	-	-	_	THE INFORMATION, INCLUDING ESTIMATED	
-	-	-	-	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED	С
-	-	-	-	INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE	
-	-	-	-	THE CONDITIONS OF ACTUAL QUANTITIES	Γ
-	-	-	-	OF WORK WHICH WILL BE REQUIRED.	ĺ
_	-	-	-		ı

REVISION DESCRIPTION

REV. DATE

SHEET NO. Plotted Date: 5/5/2014

DESIGNER/DRAFTER:
D. SCHMALTZ
CHECKED BY:
R. SALEH





ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP

TOWN:		
ANSONIA	AND	DER
DRAWING TITLE:		

NOISE BARRIER WALL AND WALL 102 BORING LOGS 2

SHEET NO.

05.24

36-179

Oriller:	Ja	ime L	loret			Co	nne	cticu	it DOT Borii	ng Report	Hole No.:	AB-22	
spector:	R.	Beni	wal		9	own:		Anso	nia		Stat./Offset:	29+47/6.47 RT	
oil Engr:	Appli	ied Ea	arth 1	Гесh.	. F	Project	No.:	36-17	76		Northing:	905804.76	
tart Date:	: 12	-18-1	3		L	ocation	10	Route	e 8		Easting:	686359.48	
inish Date	e: 12	-18-1	3		Е	Bridge N	lo.:				Surface Eleva	tion: 124.4	
roject De	scriptio	on: R	toute	8 Ra	amp 1	8 Nort	h				Prime Engine	er: Decalo & Dol	1
asing Siz	e/Type	- 32	5 in F	IA.	6	Sample	Type	/Size:	SS 2.0 in		Core Barrel Ty	/ne·	
ammer V		J. J.L	Fall:	ar a	_			Mary Annual Print	os Fall: 30 in	ROPE		ssociate Borings	CO.
roundwa		servat		@V									
				_	PLES	2				19			
Depth (ft)	Type/No.		Sam	s on pler inche		Pen. (in.)	Rec. (in.)	RQD%	Generalized Strata Description	Ма	iterial Descript and Notes	tion	Elevation (ft)
0									ASPHALT	6 in asphalt over	14 in traprock		====
+	S-1	16	19	15		18	8		OVER TRAPROCK / GRY BRN FC SAND &	Brown fine coars trace to little silt,	e SAND and fir		- - - -12
5 - 5	S-2	12	9	11	19	24	3		FC GRAVEL LTL SILT, BOULDERS, FILL	Brown fine coars trace to little silt,			-
10 - 5	S-3	13	14	11	15	24	4			Gray brown fine gravel, occasiona			-11 - - -
15 - \$	5-4	5	23	32	14	24	9			Gray brown fine gravel, occasiona			-11 - - -
20	S-5		5	4	4	24	8		GRY BLK ORGANIC F	Gray black organ	nic fine SAND a	nd silt.	-10
- 5	S-6	5	4	3	4	24	10		SAND & SILT	Gray black organ	nic fine SAND a	nd silt.	_ _10
25	S-7	3	3	1	1	24	6		GRY BRN F SAND & SILT	Gray fine SAND	and silt		- 10
30	S-8	3	4	2	7	24	24			Gray fine SAND	and silt		- -95 - -
35	S-9	2	5	6	7	24	12			Gray brown fine clay, laminations		ome <mark>sil</mark> t, trace	-90 - - - -
40		10710		THE STATE OF THE S		57				ndisturbed Piston %, Some = 20 -			- 85
otal Pene	tration	in				NOT	ES: (CME 5	5 Truck Mounte	d Rig was used.		She	
arth: 62f	t	Rock:	Oft									1 of	2
o. of		No	o. of										
oil Sampl	les: 14	Co	ore Ri	uns: (450, Tel: 203-634-91			SM-001-AE	Trev.9/

oriller:	Ja	ime L	loret			C	onne	cticu	it DOT Bori	ng Report	Hole No.:	AB-22	
nspect	or: R	. Beni	wal		1	own:		Anso	nia		Stat./Offset:	29+47/6.47 RT	
oil En	gr: App	lied E	arth T	Tech.	. F	Project	No.:	36-17	76		Northing:	905804.76	
Start Da	ate: 13	2-18-1	3		1	ocation	n:	Route	e 8		Easting:	686359.48	
inish E	Date: 1	2-18-1	3	_	E	Bridge I	Vo.:					ation: 124.4	
roject	Descript	on: F	oute	8 Ra	amp 1	8 Nort	h				Prime Engine	eer: Decalo & Doll	
Casing	Size/Typ	e: 3.2	5 in l	-IA	5	Sample	г Туре	/Size:	SS 2.0 in		Core Barrel	Гуре:	
lamme	er Wt.:		Fall:		ŀ	lamme	r Wt.:	140 lk	bs Fall: 30 in	ROPE	Boring Co: A	Associate Borings	CO.
round	lwater Ob	servat	ions:	@٧	Vater	at 25	feet						
			5	SAME	PLES				0 _				(a) dollar
Depth (ft)	Sample Type/No.	p	Sam	s on pler inche		Pen. (in.)	Rec. (in.)	RQD%	Generalized Strata Description	M	Material Description and Notes		
40-	S-10	2	5	6	10	24	24		GRY BRN F			some silt, trace	-
10 <u>—</u>)	10 -10	A	1. 1. 1. 1. 1 . 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.				SAND & SILT	clay, lamination	ns.		ļ
									(con't)				_
45-						1111					0.000		-80
() -	S-11	6	19	30	19	24	24		BRN FC	little silt.	rse SAND and t	ine coarse gravel,	-
v <u>=</u>	×								SAND & FC GRAVEL	4 M 14 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
-									LTL SILT				
50-	S-12	19	30	29	31	24	12			AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I	rse SAND and f	ine coarse gravel,	-
0										little silt.			ļ
8-													-
55											6987112		-70
9 	S-13	3	10	16	36	24	12			little silt.	rse SAND and t	ine coarse gravel,	-
4										in in the second			
													- -65
60	S-14	16	9	19	42	24	12			Brown fine coa	rse SAND and f	ine coarse gravel,	-
0	- 1. T.		-	10	72	6 5. (7.5)				little silt.			ŧ
9)	i									END OF BORI	NC 62#		-
65-										END OF BORN	NG 62II		-60
42 -1	÷												F
=													-
3 (—)	i												F ₅₅
70-													F
93													<u> </u>
8-													-
75-													-50
12 <u>—</u>													F
													-
8													- 45
80—		Came	le Tv	no.	0 - 0	enlit Co	MOD .	C = C	Poro LID - U	I ndisturbed Pisto	n V - Vana G	Shoor Tost	
			100	The state of the s		TO 100				%, Some = 20			
otel D	enetratio	50 E	auris	USE	u. I		- FC				5 G840: •		~+
C-104 100	WATER STREET		O.O.			NO	E3: (-ME 5	O Truck Mounte	ed Rig was used.		Shee 2 of	
arth: (02Π	Rock:	Oft o. of			-							
	mples: 1			en area en la	TO:	1						SM-001-AET	

Driller:	J	aime L	loret			Co	nne	cticu	ıt DOT Boriı	ng Report	Hole No.:	AB-23	
Inspect	or: R	. Beni	wal		9	Town:	3	Anso	nia		Stat./Offset:	31+33/6.44 RT	
Soil En	gr: App	lied Ea	arth 1	Tech.	. F	Project	No.:	36-17	76		Northing:	905759.25	
Start Da	ate: 12	2-19-1	3		1	Location	1:	Route	e 8		Easting:	686540.04	
Finish D	Date: 1	2-19-1	3		E	Bridge N	No.:				Surface Elev	ation: 125.5	
Project	Descript	ion: R	loute	8 Ra	amp 1	18 Nort	h				Prime Engine	er: Decalo & Dol	I
Casing	Size/Typ	e: 3.2	5 in F	IA		Sample	r Type	/Size:	SS 2.0 in		Core Barrel 7	Γvpe:	
Hamme			Fall:					2010/02/2017	bs Fall: 30 in	ROPE		ssociate Borings	CO.
Ground	water Ok	servat	ions:	@n	o wat	ter							
				-	PLES								
Depth (ft)	Sample Type/No.		Blow Sam er 6 i	pler		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Ма	aterial Descrip and Notes	otion	Elevation (ft)
0	0) [7.54				ш	H	II.	000000000000000000000000000000000000000				щ
-	S-1	12	18	18	21	24	8		ASPHALT BRN FC SAND & FC GRAVEL LTL SILT	5 in asphalt Brown fine coars trace to little silt,		ine coarse gravel, bbles, fill	-125 - -
5-	S-2	3	3	6	16	24	3		BOULDERS, FILL			ine coarse gravel, bbles & boulders,	-120 -
10-													- -11
\dashv										END OF BORIN	G 11ft		F
j													F
15— -													- -11
20													- - -10
													Ė
25- -													-10
													E
30- - -													-95 -
\dashv													F
35-													-90
													F
4													Ė
40-1		See 1871),		THE STATE OF		57				ndisturbed Piston %, Some = 20 -			
Total P	enetratio	n in				NOT	ES: (CME 5	5 Truck Mounte	d Rig was used.	Approximation 199	She	
Earth: 1	11ft	Rock:	Off							THE RESERVE		1 of	1
No. of			o. of			\dashv							
	mples: 2	· ·	ore Ru	0.01274	m.							SM-001-AE	200

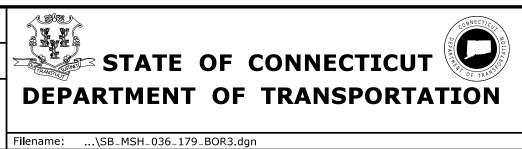
				I
-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED
-	-	•	•	QUANTITIES OF WORK, SHOWN ON THESE T SHEETS IS BASED ON LIMITED
-	-	-	-	INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE
-	-	-	-	THE CONDITIONS OF ACTUAL QUANTITIES
-	-	-	-	OF WORK WHICH WILL BE REQUIRED.
-	-		-	

REVISION DESCRIPTION

REV. DATE

SHEET NO. Plotted Date: 5/5/2014

D. SCHMALTZ
CHECKED BY:
R. SALEH





ROUTE 8 INTERCHANGE 18 NEW NORTHBOUND ON-RAMP

TOWN:		
ANSONIA	AND	DERB
DRAWING TITLE:		

36-179 DRAWING NO.

S-24 NOISE BARRIER WALL AND WALL 102 BORING LOGS 3 05.25

oriller:	1 18,000	ime Lloret	17.00			it DOT Borii	ng Report	Hole No.: AB-23A	To a tra
spect	20 11	Beniwal	Town:		Anso	to be a		Stat./Offset: 31+30.5/6.44 R	d.
		ied Earth Tech.	Project		36-17			Northing: 905759.25	
tart D	STORES OF	2-19-13	Location	ITEN	Route	e 8		Easting: 686540.04	
Burgard or Street	Date: 12	AS INTEREST ASSESSMENT	Bridge I	PERIOD AND				Surface Elevation: 125.5	ii .
roject	Descripti	on: Route 8 Ram	p 18 Nor	th				Prime Engineer: Decalo & Dol	Į.
		e: 3.25 in HA			Marine State of the	SS 2.0 in	B10000 1900	Core Barrel Type: NX	
	er Wt.:	Fall:		r Wt.:	140 II	bs Fall: 30 in	ROPE	Boring Co: Associate Borings	CO.
round	lwater Ob	servations: @no v	C SCHOOL ST			1			-
	1	SAMPLE	<u> </u>			- 60 ⊆			€
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD%	Generalized Strata Description	М	aterial Description and Notes	Elevation
0- - - 5- -						ASPHALT / GRY BRN FC SAND & FC GRAVEL LTL SILT LARGE BOULDERS, FILL	5 in asphalt		-125 - - - - - 120
10	S-3	12 35	23	3			Brown fine coar trace to little silt fill	se SAND and fine coarse gravel, , occasional cobbles & boulders,	- -115 -
15— -	C-1		60	40	60		Cored boulder a	at 12 feet	_ -110
=	S-4	18 100/5"	11	5				e coarse SAND, and fine coarse nal cobbles and boulders.	
20-	C-2		60	8			Cored boulder a	at 18 feet.	- -105
_ _ 25—	S-5	11 13 24 2	2 24	4				coarse SAND, and fine coarse nal cobbles and boulders, fill.	
30-							END OF BORIN	NG 25ft	-100 - - - - -95 -
40			The state of the s					n V = Vane Shear Test - 35%, And = 35 - 50%	-90 - - - -
otal P	enetration	n in	NOT	TES: (CME 5	5 Truck Mounte	d Rig was used.	She	
arth: 2	20ft	Rock: 5ft						1 of	1
o. of		No. of							
	mples: 3							SM-001-AE	Trev.9/0

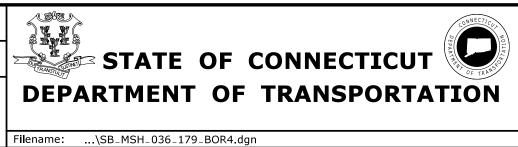
Driller:	di	aime L	loret			C	onne	cticu	t DOT Borii	ng Report	Hole No.: AB-2	3B	
Inspect		. Beni		1:	.0	Town:		Anso	The second secon			8.5/6.44 RT	
	gr: App	and the same of	3.50	Tech.		Project		36-17	Table 1		Altabatica - 11 a	59.25	
Start D		2-19-1				Locatio		Route	e 8			40.04	
Finish [Date: 1	MARKET IN	1000			Bridge I	Vo.:				Surface Elevation:	125.5	
Project	Descript	ion: F	Route	8 Ra		The state of the s	PERSONAL PROPERTY OF THE PERSON NAMED IN COLUMN TO PERSON NAMED IN COL				Prime Engineer: De	ecalo & Doll	
Casing	Size/Typ	e: 3.2	5 in F	-IA		Sample	г Туре	/Size:	SS 2.0 in		Core Barrel Type:		
Hamme			Fall:			Hamme	r Wt.:	140 II	os Fall: 30 in	ROPE	Boring Co: Associa	ate Borings	CO.
Ground	water Ok	servat	tions:	@٧	Vater	at 30	feet						
			5	SAME	PLES	5			-				t)
Depth (ft)	Sample Type/No.	þ	Little State of the Control	/s on ipler inche		Pen. (in.)	Rec. (in.)	RQD%	Generalized Strata Description	M	aterial Description and Notes		Elevation (ft)
5									ASPHALT / GRY BRN FC SAND & FC GRAVEL LTL SILT, BOULDERS, FILL		se SAND and fine coa, occasional cobbles 8		-125 - -120 - -115 - -110 - -105
25	S-6 S-7 S-8	31 21 7	17 26 15	3 24 13		24 24 24	8 18 8		GRY BRN F SAND & SILT	trace to little silt fill Brown fine coan	se SAND and fine coa , occasional cobbles & se SAND and fine coa , occasional cobbles & D some silt	boulders, arse gravel,	- - - 100 - - - - - - - - -
35-	S-9	7 Samn	14	10	10	24 Split St	20	C-(Core LID - Lie	Brown fine SAN	D some silt	Taet	- -90 - -
		2000 2000		Till		_57					- 35%, And = 35 -		
		Sherica Service His	uOHS	ose	u. I		55 57700	(DEC) (DE)	SALPHON BYEN SERVER	STATE OF THE STATE	- 3070, ATIU = 35 -	G-15-20VR:	
	enetratio					NO	ES: (CME 5	5 Truck Mounte	d Rig was used.		Shee 1 of	
Earth: (52ft	Rock				4						1000	
No. of Soil Sa	mples: 9		o, of ore Ri	uns: (n							SM-001-AET	Trev Q/r
	CONTRACTOR OF												

Driller:	Ja	ime L	loret			Co	nne	cticu	it DOT Borir	ng Report	Hole No.:	AB-23B	
nspect	or: R	Beni	wal		1	own:		Anso	nia		Stat./Offset:	31+38.5/6.44 R	Ţ.
Soil En	gr: Appl	ied E	arth 1	Tech.	. F	roject l	No.:	36-17	76		Northing:	905759.25	
Start D	ate: 12	2-19-1	13		L	ocation	10	Route	e 8		Easting:	686540.04	
Finish [Date: 12	2- <mark>1</mark> 9-1	13		Е	Bridge N	lo.:				Surface Eleva	ation: 125.5	
Project	Descripti	on: F	Route	8 Ra	amp 1	8 Nort	h				Prime Engine	er: Decalo & Doll	
Casing	Size/Typ	e: 3.2	5 in F	IA	S	ample	Type	/Size:	SS 2.0 in		Core Barrel T	vpe:	
Hamme			Fall:		-			No Invitation	os Fall: 30 in	ROPE		ssociate Borings	CO
Ground	lwater Ob	servat	tions:	@V	/ater	at 30	feet				•		
			5	SAME	PLES								
Depth (ft)	Sample Type/No.	p	Blow Sam er 6 i	pler		Pen. (in.)	Rec. (in.)	RQD%	Generalized Strata Description	Ма	aterial Descrip and Notes	tion	į
40 - -	S-10	3	6	8	10	24	20		GRY BRN F SAND & SILT (con't)	Brown fine SANI	O and silt		-8 - -
45 - -	S-11	2	6	12	15	24	24			Brown fine SANI laminations	o and silt, trace	e clay,	- -8 -
50 - -	S-12	3	4	7	12	24	18			Gray fine SAND	and silt, trace	clay, laminations	- -7 -
55— - -	S-13	3	6	10	13	24	24			Gray fine SAND	and silt, trace	clay, laminations	
60	S-14	4	35	17	25	24	8		BRN FC SAND & FC GRAVEL	Brown fine coars trace silt.	e SAND and fi	ne coarse gravel,	_ 6
65— - -										END OF BORIN	G 62ft		- -6
70-													_ 5
75— -													- -5
80					The local	125 Beell							_
		1.71	17.0	THE STATE OF		A				disturbed Piston			
	0.00		ruons	use	a. 11	erroetae.	565 4,5000	10-00-00 E	SAMPLES SOCIETY	%, Some = 20 -	∙აე%, ANG=	E-CONTROL CONTROL CONT	
Fotal P	enetration	n in				NOT	ES: (CME 5	5 Truck Mounte	d Rig was used.		She 2 of	
Earth: (62ft	Rock										2 01	2
No. of	eseles. C		o. of		1							ma a ma a la	e gran
JUII JA	mples: 9		ore R	uris. 1	9							SM-001-AE	rev.

L						
						C
	-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED	
	_	-	-	-	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED	(
	-	-	-	-	INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE	
	-	-	-	-	THE CONDITIONS OF ACTUAL QUANTITIES	Ī
	-	-	-	-	OF WORK WHICH WILL BE REQUIRED.	ı
	-	-	-	1		ı
	REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/5/2014	L

D. SCHMALTZ
CHECKED BY:

R. SALEH



Applied Earth Technologies, Inc., 571 Bee Street, Meriden, CT 06450, Tel: 203-634-9110 A-12



ROUTE 8 INTERCHANGE 18 NEW NORTHBOUND ON-RAMP

ANSONIA	AND	DERBY
DRAWING TITLE:		
NOISE BARI WALL 102		

36-179 ERBY DRAWING NO.

S-25 05.26

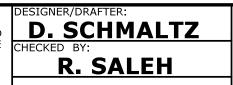
Driller: J	laime L	loret			Co	nne	cticu	t DOT Borin	ng Report	Hole No.:	AB-24	
nspector: F	R. Beni	wal		9	Town:		Anso	nia		Stat./Offset:	33+11/6.62 RT	
Soil Engr: App	olied E	arth 1	Tech.		Project I	No.:	36-17	76		Northing:	905716.03	
Start Date: 1	2-20-1	3		i i	Location	10	Route	e 8		Easting:	686711.83	
Finish Date: 1	2-20-1	3			Bridge N	No.:	T. C.	II Total Constitution		Surface Eleva	ation: 132.7	
Project Descrip	tion: F	Route	8 Ra	mp	18 Nort	h				Prime Engine	er: Decalo & Dol	l
Casing Size/Ty	na: 3.2	5 in l	IΔ	1	Samole	Type	/Siza:	SS 2.0 in		Core Barrel T	Concer-	
lammer Wt.:	00. O.E	Fall:	17.3	_			ST OSE OF	bs Fall: 30 in	ROPE		ssociate Borings	CO.
Groundwater O	bservat		@W			_	1101	JO 1 411. OU 11	1101 2			Datased Services (15)
			SAME									-
2		.00		#14872/130)		Generalized Strata Description		4 - 1 - 1	17	Elevation (ft)
Sample Type/No.		La Contract of the Contract of	s on		(in.)	(in.)	%	a a xip	IVIè	aterial Descrip and Notes	uon	atio
am	р		inche	S	Pen.	Rec.	O	escesso		dia Notos		ě
	10%				Δ.	2	ĸ	000				Ш
0								ASPHALT_/	5 in asphalt			
- S-1	3	6	4	3	24	6		BRN FC SAND & FC			ne coarse gravel,	-
+	-							GRAVEL	trace to little silt,	occasional col	bbles, IIII	-130 -
5								LTL SILT BOULDERS,				-
- S-2	5	7	22	22	24	4		FILL	Brown fine coars trace to little silt,		ne coarse gravel,	 :
+	1								u ace to little sit,	Occasional cor	iores, mi	-125
]												H
10									Proum fine coor	o CAND and f	ne coarse gravel,	. 18 1- 8500
- S-3	8	9	11	30	24	6			trace to little silt,			
											in Paris	-120
												 1
15 S-4	3	5	25	25	24	10			Brown fine coars	se SAND and fi	ne coarse gravel,	=
3-4	- "	3	23	23	24	10			trace to little silt,	occasional col	bles, fill	
4												-115
20									Brown fine coars	se SAND and fi	ne coarse gravel,	-
S-5	25	45	60	4	18	4			trace to little silt,		bles & boulders,	
-									fill			-110
												_
25	-								Brown fine coars	se SAND and fi	ne coarse gravel,	
- S-6	3	11	16	30	24	6			trace to little silt,	occasional col	bles & boulders,	
S-7	40	50			24	6			Brown fine coars		ne coarse gravel,	-105
+	-								trace to little silt,	occasional col	bles & boulders,	_
30 - S-8	6	13	14	20	24	12			Brown fine coars		ne coarse gravel,	<u> </u>
	- ~			20		12			trace to little silt,	occasional col	bles, fill	-
_												-100 -
35								GRY BRN F				
- S-9	6	7	6	9	24	14		SAND &	Gray brown fine clay, laminations		some silt, trace	<u></u> 8
	1							SILT	oray, ramminuoris	te:		_ _95
4												
40	0	-		· (c	0-17-0						· · ·	
	100		T. C.		. 57				disturbed Pistor			
		tions	Use	a: I		53 4,750	850mm#1 2		%, Some = 20	- 35%, And =		
otal Penetratio	on in				NOT	ES: (CME 5	5 Truck Mounte	d Rig was used.		She 1 of	
arth: 67ft	Rock										l of	
lo. of oil Samples: "		o. of	upo- f	1							SM-001-AE	Territora
	100 100	OF STREET	uris. L	3								THE PERSON NAMED IN

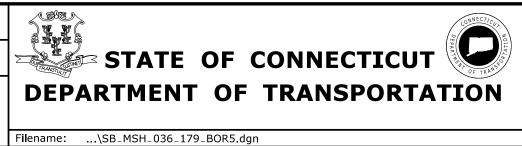
Driller:	Ja	aime L	loret			C	onne	cticu	it DOT Borii	ng Report	Hole No.:	AB-24	
Inspect	tor: R	. Beni	wal		T	own:		Anso	nia		Stat./Offset:	33+11/6.62 RT	
Soil En	gr: Appl	lied Ea	arth T	Tech.	P	roject	No.:	36-17	7 <mark>6</mark>		Northing:	905716.03	
Start D	ate: 12	2-20-1	3		L	ocation.	1:	Route	e 8	Easting:	686711.83		
Finish [Date: 12	2-20-1	3		В	ridge l	No.:			THE RESIDENCE OF COURTS	ation: 132.7		
Project	Descripti	ion: R	loute	8 Ra	mp 1	8 Nort	h			Prime Engine	eer: Dec <mark>alo & Do</mark>	II	
Casing	Size/Typ	e: 3.2	5 in H	IA	S	ample	г Туре	/Size:	SS 2.0 in		Core Barrel	Гуре:	
Hamme	er Wt.:		Fall:		H	lamme	r Wt.:	140 II	os Fall: 30 in	ROPE	Boring Co: A	Associate Borings	CO.
Ground	lwater Ob	servat	ions:	@W	/ater	at 30	feet				1		
			S	SAME	PLES				-				0
Depth (ft)	Sample Type/No.		Sam	s on pler nche		Pen. (in.)	Rec. (in.)	RQD%	Generalized Strata Description	Ma	aterial Descrip and Notes		Elevation (ft)
40	S-10	1	6	3	5	24	10		GRY BRN F SAND & SILT (con't)	Gray brown fine clay, laminations		some silt, trace	- - -90
45— - -	S-11	2	4	3	7	24	18			Gray brown fine clay.	SAND, and to	some silt, trace	- - - -85
50	S-12	3	4	6	10	24	24			Gray brown fine clay.	SAND, and to	some silt, trace	- - - -80
55 - - -	S-13	2	3	6	8	24	18			Gray brown fine clay.	SAND, and to	some silt, trace	- - - -75
60-	S-14	5	4	11	14	24	14			Gray brown fine clay.	SAND, and to	some silt, trace	- - - 70
65 - -	S-15	15	30	27	24	24	10		BRN FC SAND & FC GRAVEL LTL SILT	Red brown fine of gravel, little silt.		and fine coarse	- - - - -65
75—										END OF BORIN	G 6/ π		- - -60 - - - - -55
80-1	F	ropor	100-0	-		race =	1 - 10)%, I	Little = 10 - 20	ndisturbed Piston %, Some = 20 -			_ <u>_</u>
Total P	enetration	n in				NOT	ES: (CME 5	5 Truck Mounte	d Rig was used.		She 2 o	
Earth: (67ft	Rock:	Oft o. of			4						2 0	I Z
	mples: 1		and the second second	ins: ()							SM-001-AE	Trev 9/

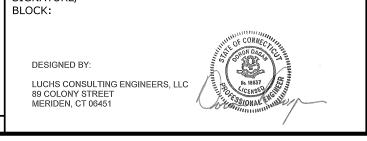
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-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED	
-	-	-	-	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED	c
-	-	-	-	INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE	
-	-	-	-	THE CONDITIONS OF ACTUAL QUANTITIES	Γ
-	-	-	-	OF WORK WHICH WILL BE REQUIRED.	
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REV. DATE REVISION DESCRIPTION

SHEET NO. Plotted Date: 5/5/2014

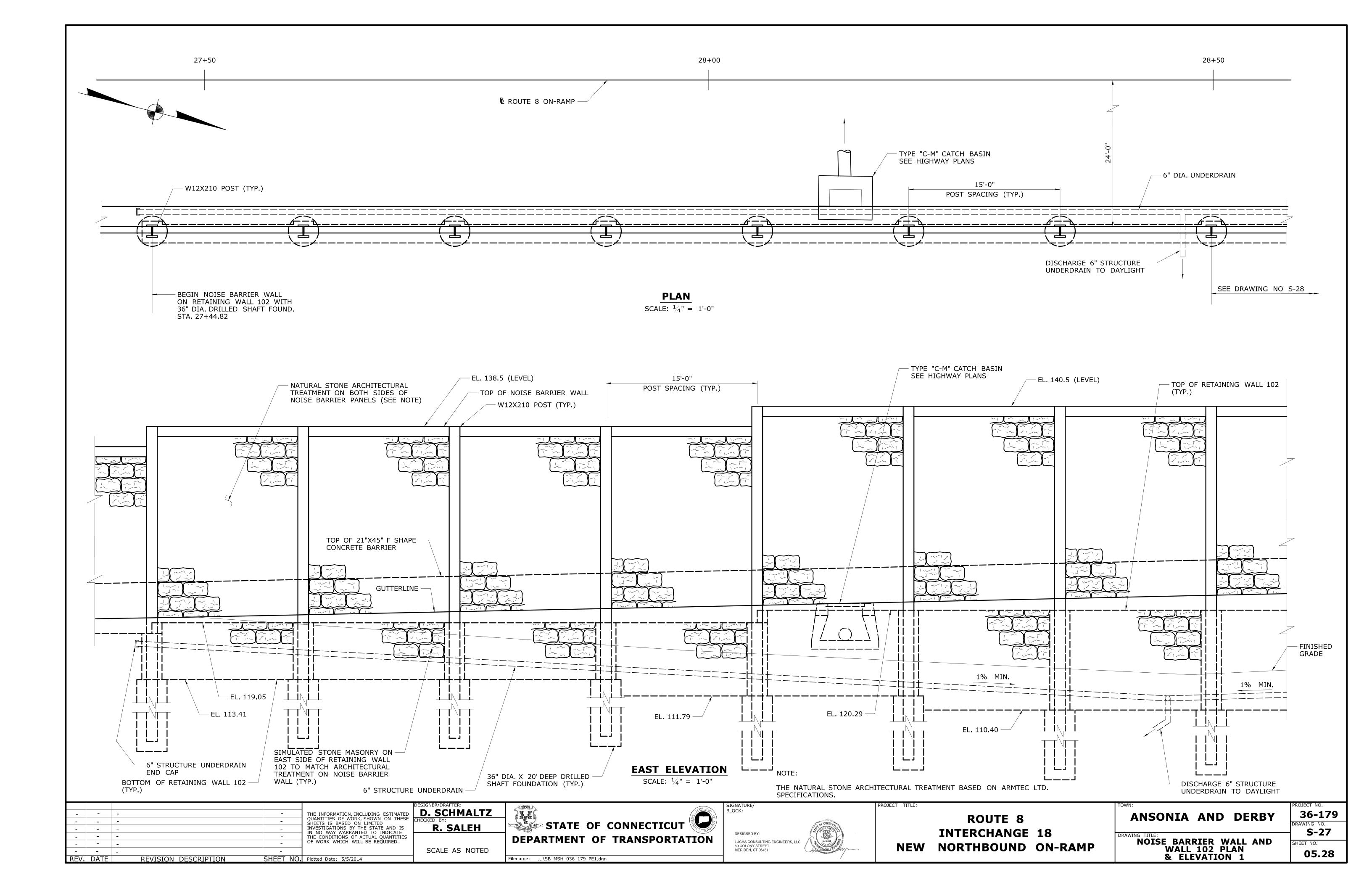


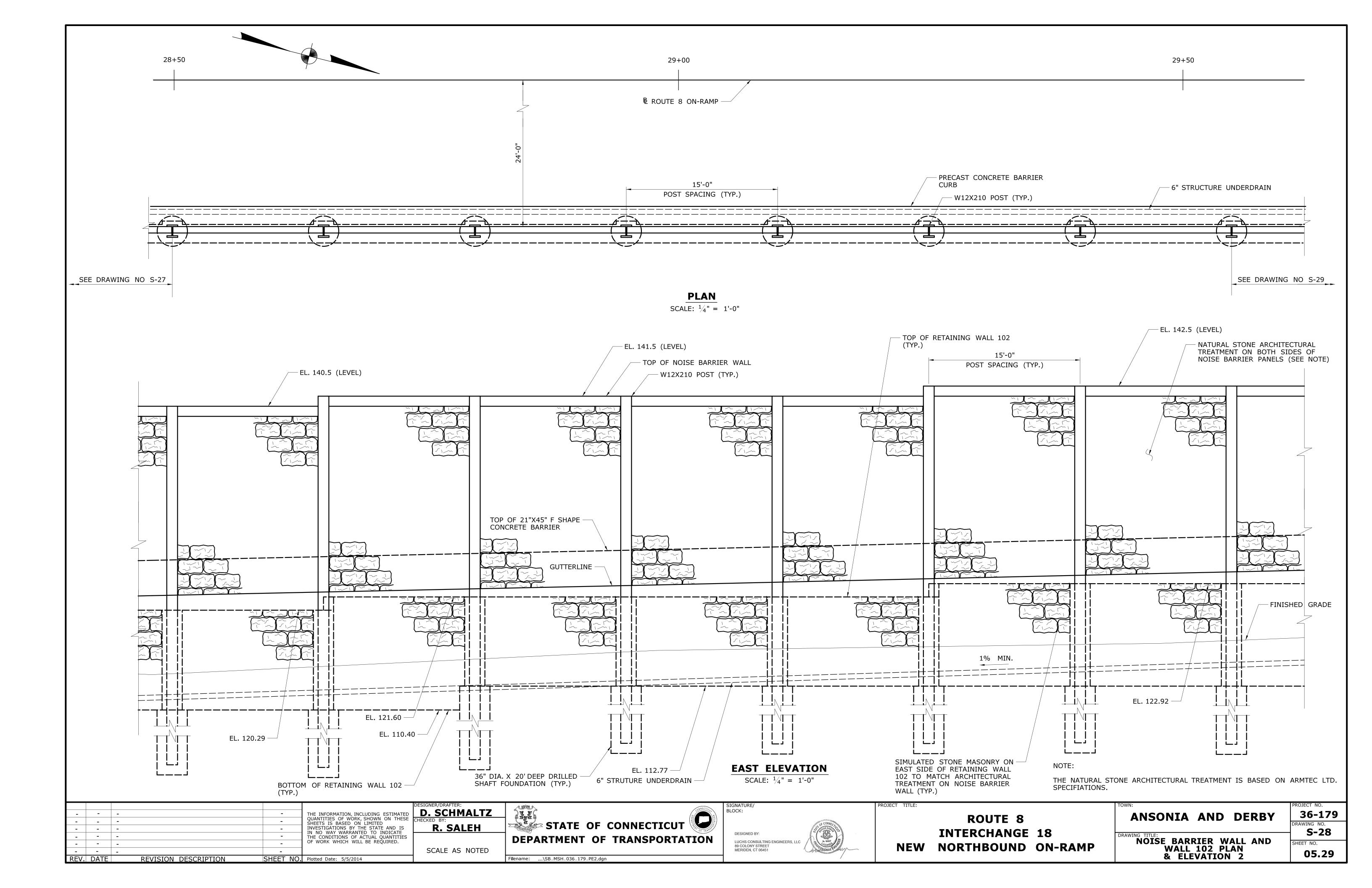


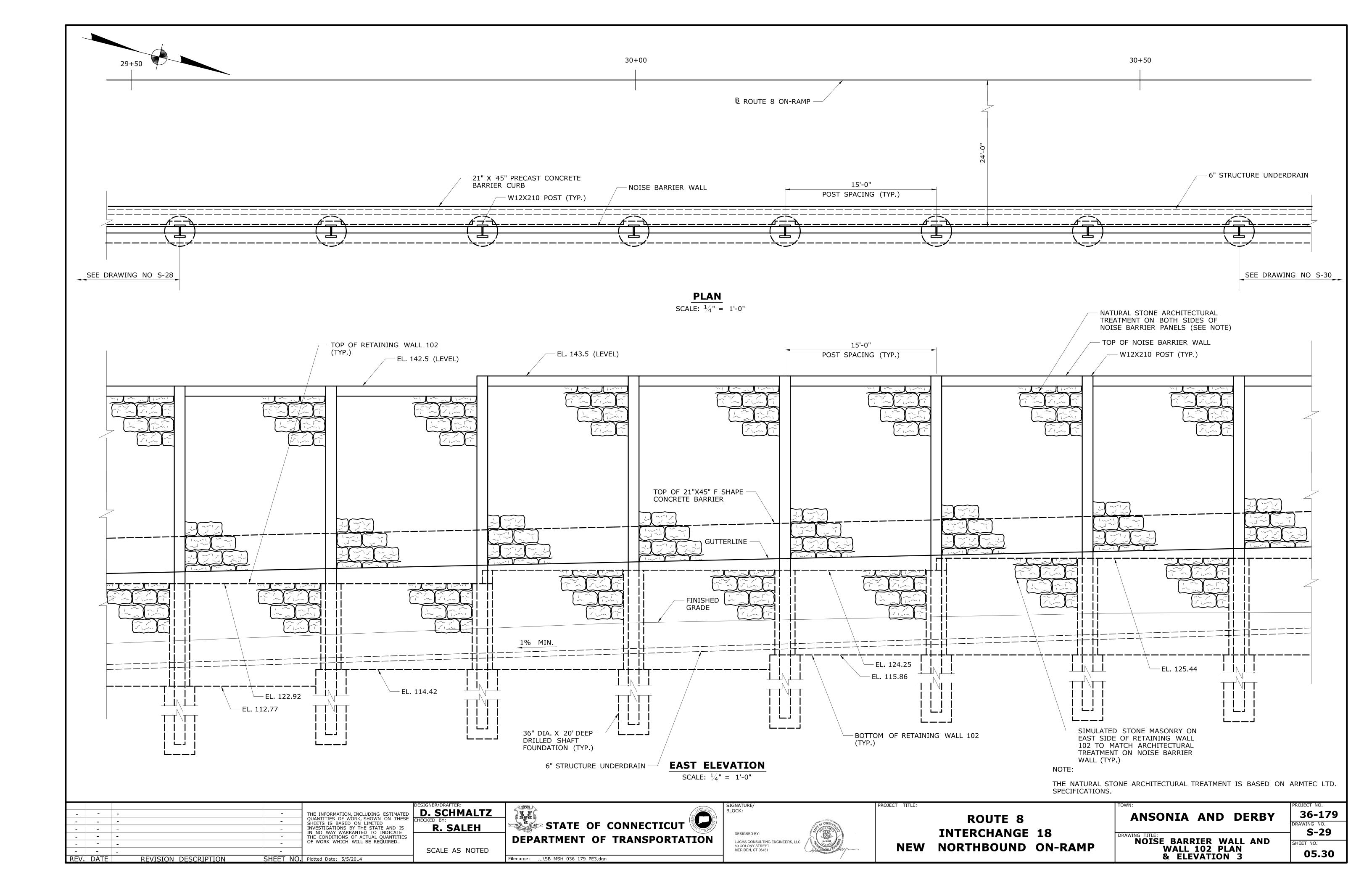


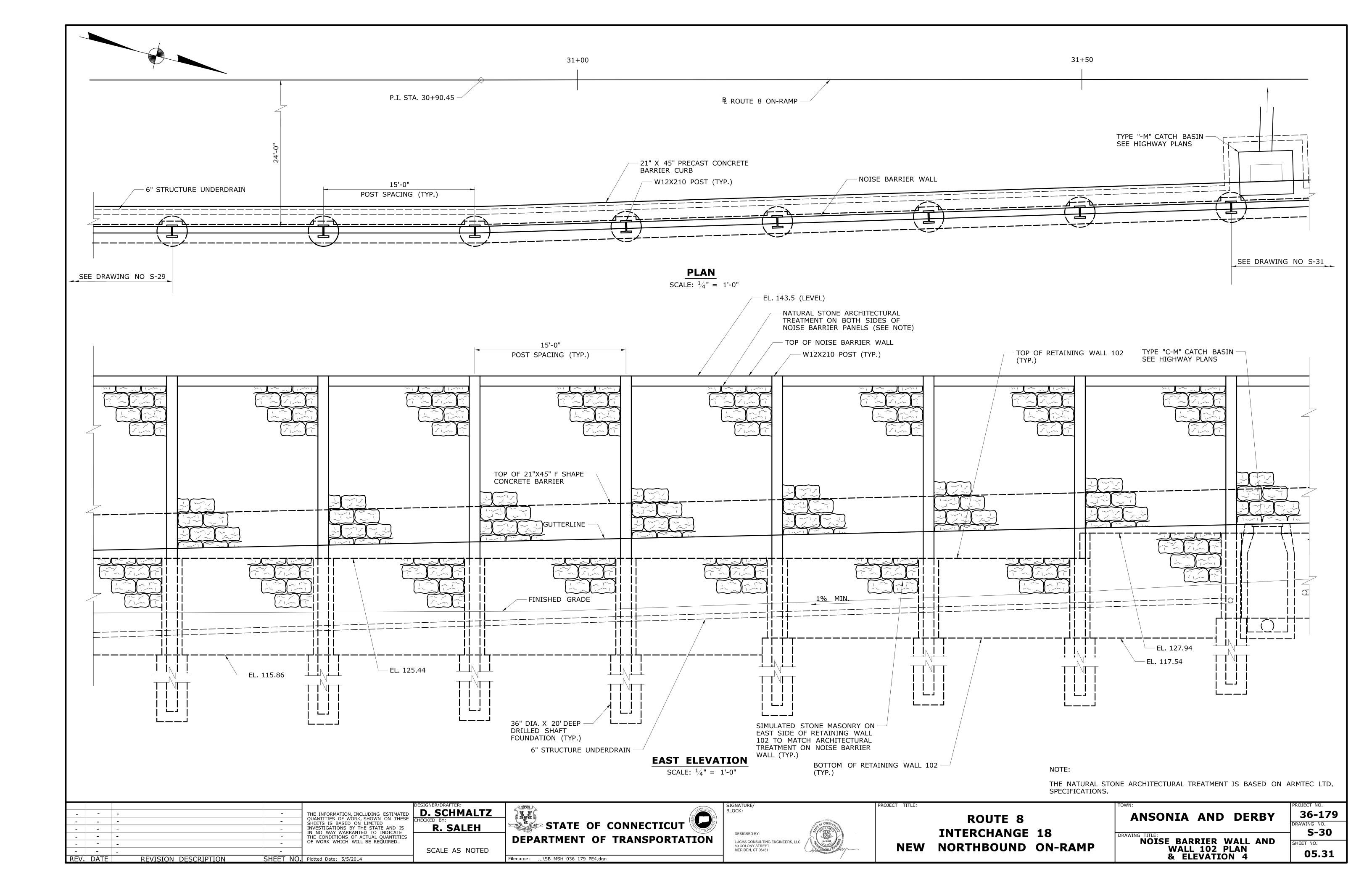
	ROUTE 8	
	INTERCHANGE	18
NEW	NORTHBOUND	ON-RAMP

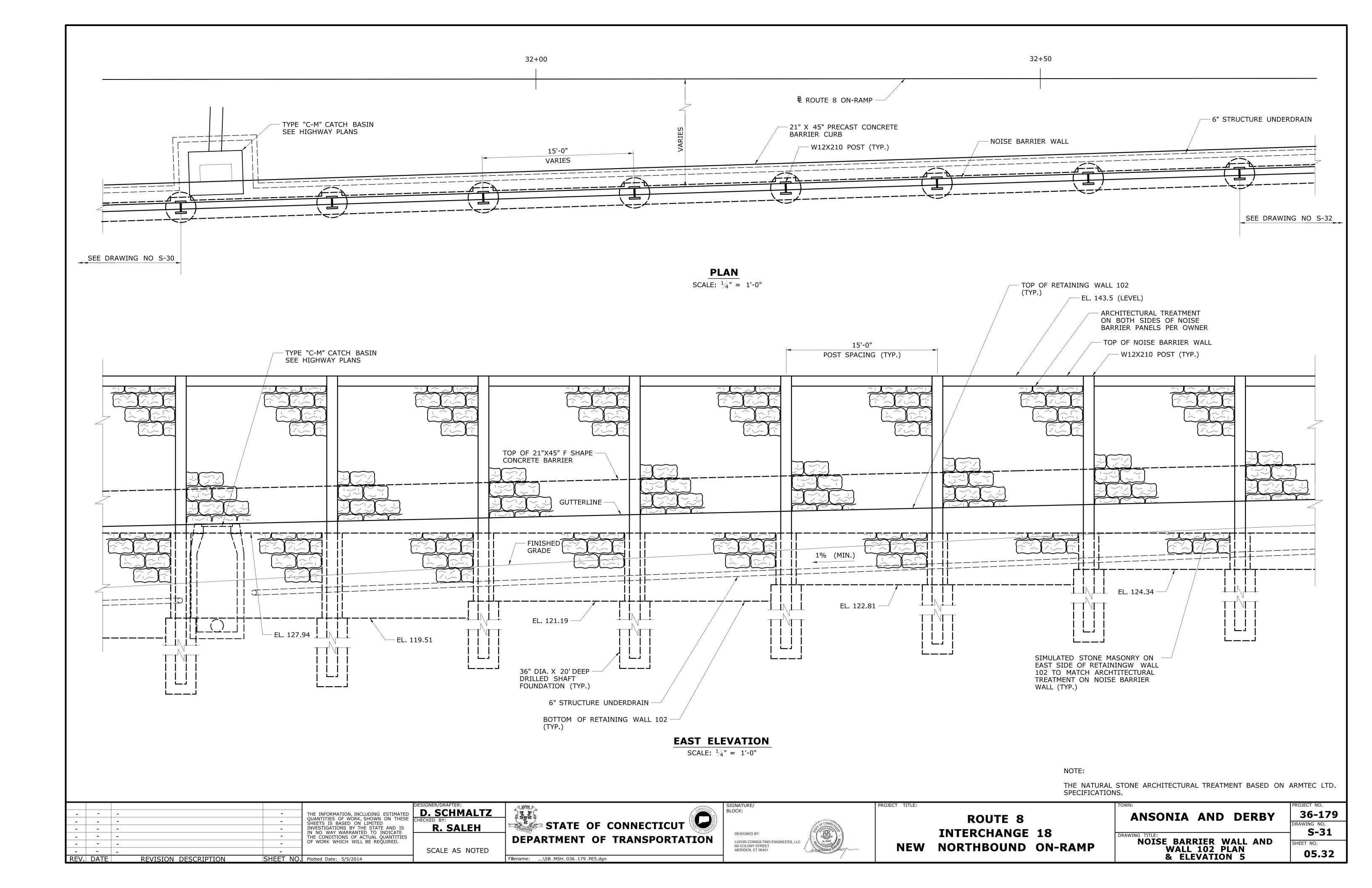
ANSONIA AND DERBY	PROJECT N 36- DRAWING
DRAWING TITLE:	5-
NOISE BARRIER WALL AND	SHEET NO.
WALL 102 BORING LOGS 5	05

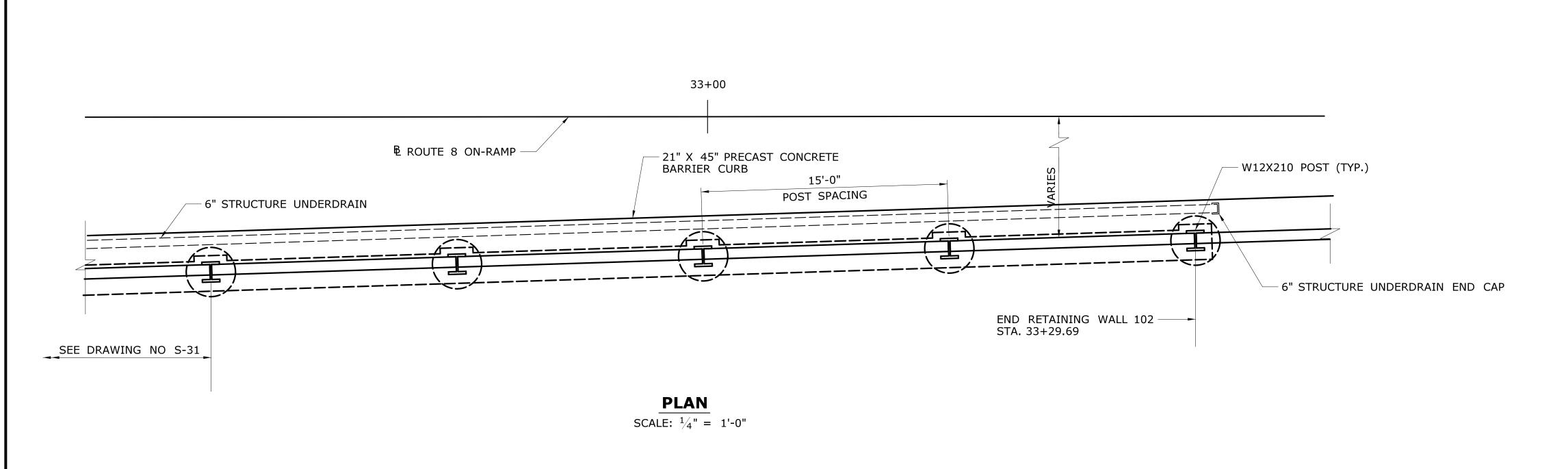


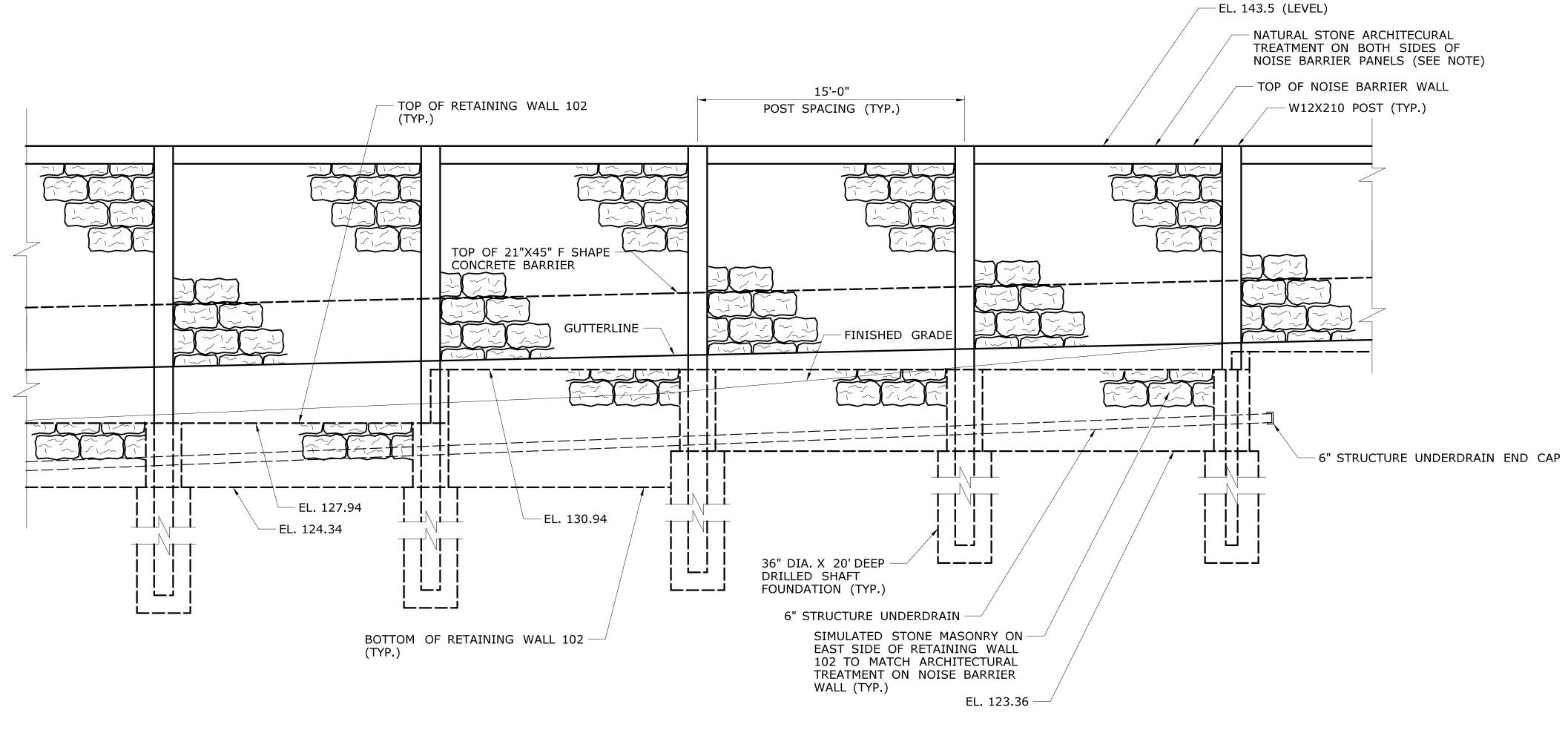












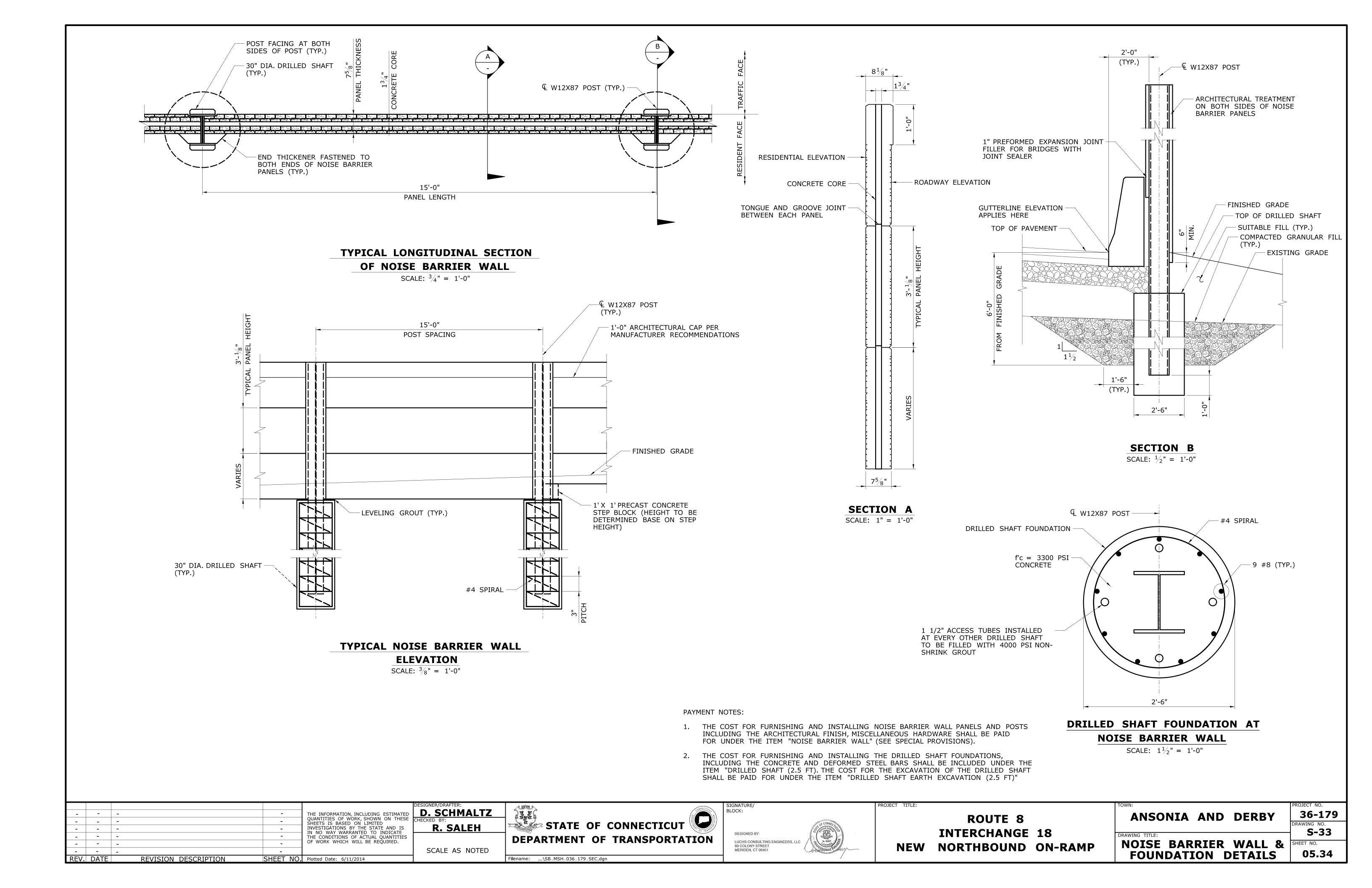
EAST ELEVATION

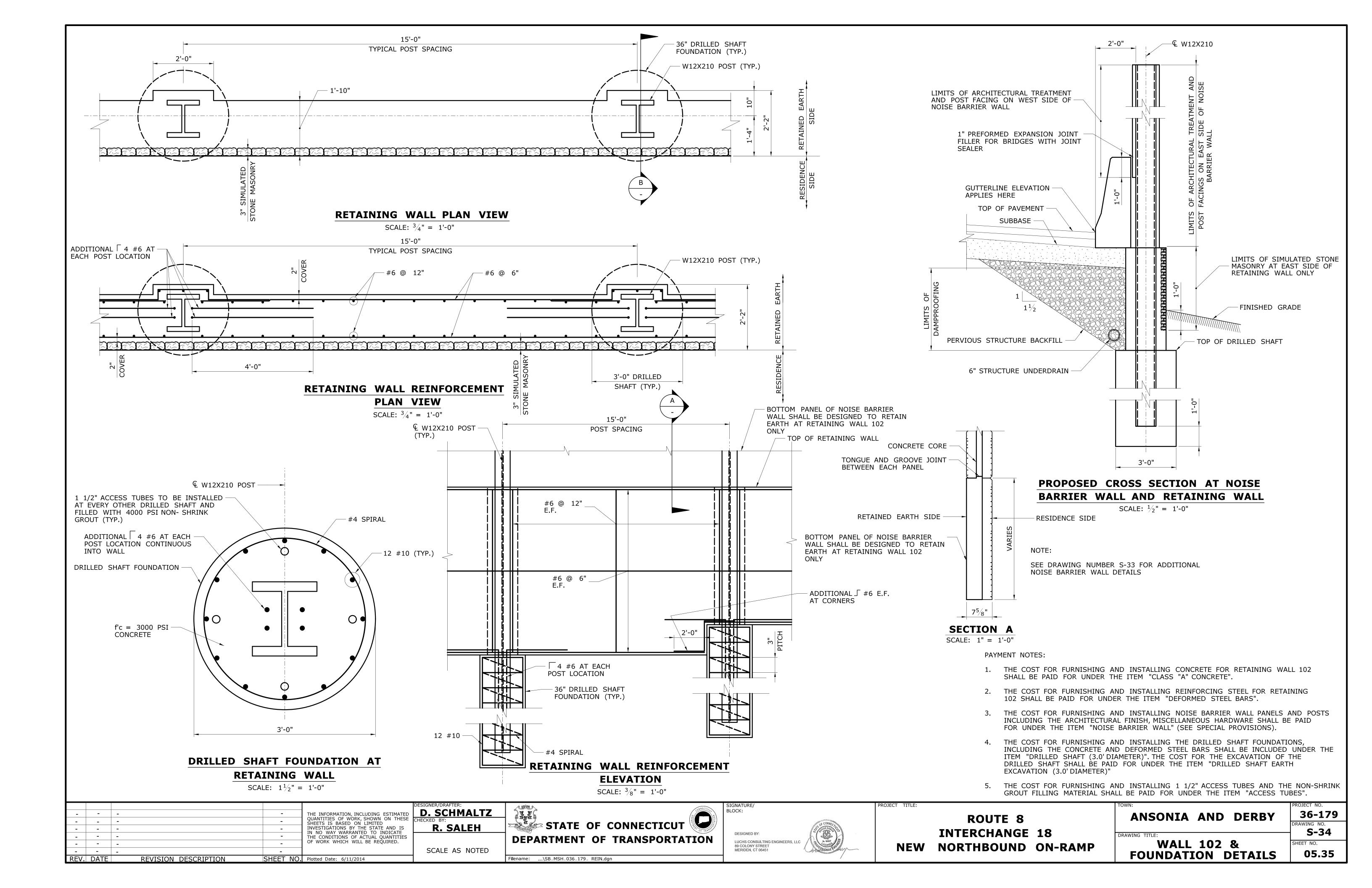
SCALE: $\frac{1}{4}$ " = 1'-0"

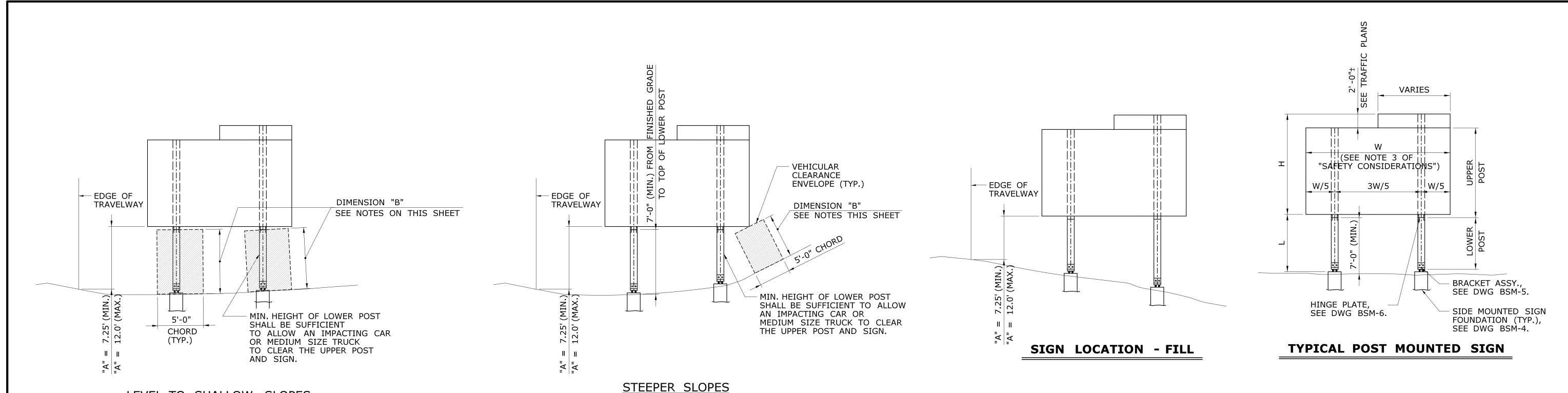
NOTE:

THE NATURAL STONE ARCHITECTURAL TREATMENT IS BASED ON ARMTEC LTD. SPECIFICATIONS

 	- THE INFO QUANTITIES INVESTIGE IN NO. WILLIAM IN N	DESIGNER/DRAFTER: DRMATION, INCLUDING ESTIMATED DESIGNER/DRAFTER: DRMATION, INCLUDING ESTIMATED DESIGNER/DRAFTER: D. SCHMALTZ CHECKED BY: RATIONS BY THE STATE AND IS RATIONS BY THE STATE AND IS CALLED TO INDICATE	STATE OF CONNECTICUT	SIGNATURE/ BLOCK: DESIGNED BY:	PROJECT TITLE:	ROUTE 8 INTERCHANGE 18	ANSONIA AND DERBY	PROJECT NO. 36-179 DRAWING NO. S-32
 REV. DATE	THE CONE OF WORK - REVISION DESCRIPTION SHEET NO. Plotted Da	SCALE AS NOTED	DEPARTMENT OF TRANSPORTATION Filename:\SB_MSH_036_179_PE6.dgn	LUCHS CONSULTING ENGINEERS, LLC 89 COLONY STREET MERIDEN, CT 06451	NEW	NORTHBOUND ON-RAMP	NOISE BARRIER WALL AND WALL 102 PLAN & ELEVATION 6	SHEET NO. 05.33







LEVEL TO SHALLOW SLOPES

SIGN LOCATION - CUT

- 1. DIMENSION "B" IS THE SMALLER OF:
 - THE CLEAR DISTANCE BETWEEN THE BOTTOM OF SIGN AND THE FINISHED GRADE

NOTES FOR DETERMINING DIMENSION "B"

- THE CLEAR DISTANCE BETWEEN THE BOTTOM OF UPPER POST AND THE FINISHED GRADE.
- 2. DIMENSION "B" SHALL TYPICALLY BE A MINIMUM OF 7'-0" TO CLEAR AN IMPACTING CAR OR MEDIUM SIZE TRUCK.
- 3. WHEN DIMENSION "A" WOULD EXCEED 12'-0", CONSIDERATION MAY BE GIVEN TO REDUCING DIMENSION "B" IN ACCORDANCE WITH PROVISIONS OF NOTE 4.
- 4. DIMENSION "B" MAY BE LESS THAN 7'-0": A. IF THE POST IS OUT OF THE CLEAR ZONE.
 - B. IF THE POST IS WITHIN THE CLEAR ZONE BUT SHIELDED BY
 - AN APPROPRIATE BARRIER SYSTEM.
 - C. IN NO CASE SHALL DIMENSION "B" BE LESS THAN 2'-6".
- 5. IF FIELD CONDITIONS EXCEED THESE REQUIREMENTS, CONTACT THE ENGINEER FOR DIRECTION.

NOTES ON TOTAL HEIGHT OF SIGN POSTS

- 1. UPPER SIGN POSTS SHALL EXTEND TO THE TOP OF FULL WIDTH SIGN PANEL OR THE TOP OF CROWN, WHICHEVER IS HIGHER.
- 2. FOR SIGN OR CROWN PANEL RETROFIT, THE EXISTING SIGN POSTS SHALL BE REPLACED WITH NEW POSTS OR EXTENDED WITH ADDITIONAL SECTIONS USING HINGE ASSEMBLIES, REFER TO TRAFFIC TYPICAL SHEETS "EXTRUDED SIGN PANEL - RETROFIT DETAIL".

SHEET NO. Plotted Date: 4/28/2014

SAFETY CONSIDERATIONS

- 1. THE HINGE BETWEEN THE UPPER AND LOWER POSTS SHALL BE AT LEAST 7 FT. ABOVE THE GROUND.
- 2. NO SUPPLEMENTARY SIGNS SHALL BE ATTACHED BELOW THE HINGES.
- 3. THE POST SPACING SHALL BE 3/5 W EXCEPT AS NOTED BELOW:

UNIT WEIGHT OF POST

POST SPACING REQUIREMENTS

LESS THAN 18 PLF NO RESTRICTIONS ON POST SPACING **

FROM 18 PLF TO 45 PLF

PROVIDE AT LEAST 7 FT. CLEAR DISTANCE BETWEEN POSTS ***

EXCEEDS 45 PLF

RELOCATE SIGN OUTSIDE OF CLEAR ZONE OR SHIELD SIGN FROM VEHICULAR IMPACT AS DIRECTED BY THE ENGINEER

- ** IF THE TOTAL COMBINED WEIGHT OF ONE LOWER POST AND TWO BRACKETS EXCEEDS 600 LBS OR THE COMBINED WEIGHT OF TWO POSTS AND FOUR BRACKETS LOCATED WITHIN A CLEAR DISTANCE OF 7 FT OF EACH OTHER EXCEEDS 600 LBS, THE SIGN SHALL BE RELOCATED OUTSIDE OF THE CLEAR ZONE OR SHALL BE PROPERLY SHIELDED FROM VEHICULAR IMPACT AS DIRECTED BY THE ENGINEER. SEE "TABLE 1 - BRACKET DATA" ON BSM-5 FOR BRACKET WEIGHT.
- *** IF THE REQUIRED CLEAR DISTANCE CANNOT BE ATTAINED, THE ENGINEER MAY DIRECT THAT THE SIGN BE RELOCATED OUTSIDE THE CLEAR ZONE OR THAT IT BE PROPERLY SHIELDED FROM VEHICULAR IMPACT.

BREAKAWAY SIGN SUPPORT TYPICAL SHEETS ARE IN US CUSTOMARY UNITS

FOR METRIC PROJECTS: 1. DETERMINE US CUSTOMARY POST SIZE FROM THE POST SELECTION TABLE.

2. CALCULATE THE WEIGHT OF POSTS IN US CUSTOMARY UNITS (CWT) THEN USE THE FOLLOWING CONVERSION FACTOR TO CONVERT CWT TO KILOGRAMS.

1 CWT = 45.36 KG

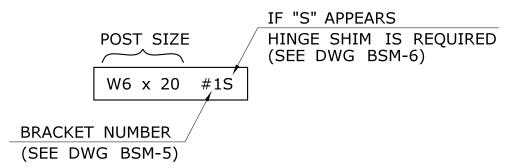
EXAMPLE: 120 CWT x 45.36 KG/CWT = 5443 KG

SELECTING A POST SIZE, BRACKET NUMBER, AND HINGE TYPE

- 1. DETERMINE THE REQUIRED SIGN DIMENSIONS AND POST HEIGHTS (SEE "TYPICAL POST MOUNTED SIGN" DETAIL, THIS SHEET).
 - SIGN WIDTH (HORIZONTAL DIMENSION)
 - SIGN HEIGHT (VERTICAL DIMENSION) (ADD CROWN HEIGHT WHEN APPLICABLE)
 - POST HEIGHT (THE DISTANCE BETWEEN THE TOP OF THE FOUNDATION AND THE BOTTOM OF THE SIGN MEASURED AT THE TALLER POST)
- 2. ENTER "POST SELECTION TABLE 1 AND 2" ON DWG BSM-2 AND BSM-3 WITH THE DESIRED VALUES OF W, H, AND L. ROUND UP TO THE NEAREST VALUES IN THE TABLE. READ THE CORRESPONDING POST SIZE AND BRACKET NUMBER. REFER TO DWG BSM-5 FOR BRACKET TYPE AND BSM-6 FOR TYPICAL HINGE REQUIREMENTS.

EXAMPLE: W = 8', L = 10', H = 14'

ENTER "POST SELECTION TABLE 1" ON DWG BSM-2 SINCE TABLE 1 IS APPLICABLE FOR SIGN WIDTH ≤ 15' LOCATE THE FOLLOWING CELL:



3. IF NO POST SIZE IS SHOWN FOR THE COMBINATION OF DIMENSIONS W. L. AND H. THE ENGINEER WILL EITHER PROVIDE A DESIGN FOR THE POST AND FOUNDATION OR RELOCATE THE SIGN.

TABLE OF CONTENT								
DWG. NO.	DESCRIPTION							
BSM-1	GENERAL NOTES							
BSM-2	POST SELECTION TABLE 1 (W ≤ 15 FT.)							
BSM-3	POST SELECTION TABLE 2 (W > 15 FT.)							
BSM-4	FOUNDATION DETAILS							
BSM-5	BRACKET DETAILS							
BSM-6	HINGE DETAILS							

-	-	-	_	THE INFORMATION, INCLUDING ESTIMATED
_	-	-	-	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED
-	-	-	-	INVESTIGATIONS BY THE STATE AND IS
-	-	-	-	IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES
-	-	-	-	OF WORK WHICH WILL BE REQUIRED.
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REVISION DESCRIPTION

REV. DATE

BKC

SCALE AS NOTED

STATE OF CONNECTICUT **DEPARTMENT OF TRANSPORTATION**

Filename: ...\SB_Breakaway_Signpost_BSM1_General Note.dgn



ROUTE 8 INTERCHANGE 18 NEW NORTHBOUND ON-RAMP

ANSONIA AND DERBY BREAKAWAY SIGN SUPPORTS SHEET NO. **GENERAL NOTES**

36-179 RAWING NO. BSM-1 05.36

POST SELECTION TABLE 1

W										H (S	ign Height + Cro	wn Height)								
		4 ft	5 ft	6 ft	7 ft	8 ft	9 ft	10 ft	11 ft	12 ft	13 ft	14 ft	15 ft	16 ft	17 ft	18 ft	19 ft	20 ft	21 ft	22 ft
	/ ft	W6 x 9 #3 W6 x 9 #2	W6 x 9 #3 W6 x 9 #2	W6 x 9 #2 W6 x 9 #2	W6 x 9 #2 W6 x 9 #2	W6 x 9 #2 W6 x 12 #2	W6 x 12 #2 W6 x 12 #2	W6 x 12 #2 W6 x 12 #2	W6 x 12 #2 W6 x 15 #2	W6 x 15 #2 W6 x 15 #1	W6 x 15 #1 W6 x 15 #1	W6 x 15 #1S W6 x 16 #1S	W6 x 16 #1S W8 x 18 #1	W8 x 18 #2S W8 x 21 #1S	W8 x 21 #1S W8 x 21 #1S	W10 x 22 #2 W10 x 22 #2	W10 x 22 #2 W10 x 26 #1	W10 x 26 #2 W10 x 26 #1		W10 x 26 #1S W10 x 30 #1S
	9 ft	W6 x 9 #2	W6 x 9 #2	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 12 #2	W6 x 12 #2 W6 x 15 #1	W6 x 15 #2	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1S	W8 x 21 #1S	W8 x 21 #1S	W10 x 22 #2	W10 x 26 #1	W10 x 26 #1	W10 x 20 #1S	+
	10 f	- 	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1S	W6 x 20 #1S	W8 x 21 #1S	W10 x 26 #1	W10 x 26 #1	W10 x 26 #1		-	-
0 ft	11 f		W6 x 9 #2	W6 x 12 #1	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1S	W8 x 21 #1	-	-	-	-	-	-	-
ΟIL	12 f		W6 x 12 #1	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	W6 x 20 #1S	-	-	-	-	-	-	-	-
	13 f		W6 x 12 #1	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	-	-	-	-	-	-	-	-	-
	14 f	-	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 16 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	-	-	-	-	-	-	-	-	-	-
	15 f	t W6 x 12 #1 W6 x 12 #1	W6 x 15 #1 W6 x 15 #1	W6 x 15 #1 W6 x 15 #1	W6 x 15 #1 W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	-	-	-	<u>-</u>	-	-	-	-	-	-	-		-
	7 ft	W6 x 9 #3	W6 x 9 #3	W6 x 9 #2	W6 x 9 #2	W8 x 10 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #1S	W6 x 15 #1S	W8 x 18 #2S	W8 x 21 #2S	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2S	W10 x 26 #1S	W12 x 30 #2S
	8 ft	W6 x 9 #2	W6 x 9 #2	W6 x 9 #2	W8 x 10 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #1	W6 x 15 #1S	W8 x 18 #2	W8 x 21 #2S	W8 x 21 #1S	W10 x 22 #2	W10 x 26 #2	W10 x 26 #1	W10 x 26 #1S	W12 x 30 #2	W12 x 30 #2S
	9 ft	W6 x 9 #2	W6 x 9 #2	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #2	W6 x 20 #1S	W8 x 21 #1S	W8 x 21 #1S	W10 x 26 #2	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1S	W12 x 30 #1	-
	10 f		W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1S	W6 x 20 #1S	W8 x 21 #1S	W10 x 26 #1	W10 x 26 #1	W10 x 26 #1	-	-	-	-
9 ft	11 f		W6 x 12 #2	W6 x 12 #1	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W8 x 18 #1	W6 x 20 #1S	W8 x 21 #1	-	-	-	-	-	-	-	-
	12 f		W6 x 12 #1	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1S	-	-	-	-	-	-	-	-	-
	13 f 14 f		W6 x 12 #1 W6 x 12 #1	W6 x 15 #1 W6 x 15 #1	W6 x 15 #1 W6 x 15 #1	W6 x 15 #1 W6 x 15 #1	W6 x 16 #1 W8 x 18 #1	W8 x 18 #1 W6 x 20 #1	W6 x 20 #1 W6 x 20 #1	W6 x 20 #1 W6 x 20 #1	<u>-</u>	-	-	-	-	-	-	<u>-</u>	-	-
	15 f	-	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	-		-	-	<u>-</u>		-	<u>-</u>	-	-	-		-	-
	16 f	t W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7 ft	W6 x 9 #3	W6 x 9 #3	W6 x 9 #2	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #1S	W8 x 18 #2	W8 x 18 #2S	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2S	W10 x 26 #2S	W12 x 30 #2S	W14 x 30 #2S
	8 ft	W6 x 9 #2	W6 x 9 #2	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #1	W6 x 15 #1	W8 x 18 #2	W8 x 18 #2S	W8 x 21 #1S	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W10 x 26 #1S	W12 x 30 #2	W14 x 30 #2	-
	9 ft	W6 x 9 #2	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #1	W6 x 15 #1	W8 x 18 #2	W8 x 18 #1	W6 x 20 #1S	W8 x 21 #1S	W10 x 26 #2	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1S	W12 x 30 #2	-	-
	10 f		W6 x 12 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 16 #1	W8 x 18 #1	W6 x 20 #1S	W8 x 21 #1S	W10 x 26 #2	W10 x 26 #1	W10 x 26 #1	-	-	-	-	-
10 ft	11 f 12 f		W6 x 12 #2 W6 x 12 #1	W6 x 12 #1 W6 x 15 #1	W6 x 15 #1 W6 x 15 #1	W6 x 15 #1 W6 x 15 #1	W6 x 15 #1 W6 x 15 #1	W6 x 16 #1 W8 x 18 #1	W8 x 18 #1 W6 x 20 #1	W6 x 20 #1 W6 x 20 #1	W6 x 20 #1S W10 x 22 #1	W8 x 24 #1S	-	-		-	-	-	-	-
	12 I	-	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	W8 x 21 #1	-	-	<u>-</u> -	-	-		-	-	-	-
	14 f	t W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	W6 x 20 #1	-	-	-	-	-	-	-	-	-	-	-
	15 f	t W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 16 #1	W8 x 18 #1	-	-	-	_	-	-	-						-	-
	16 f	t W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7 ft	W6 x 9 #3	W6 x 9 #3	W6 x 9 #2	W8 x 10 #3	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2S	W6 x 15 #1S	W8 x 18 #2S	W8 x 21 #2S	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2S	W12 x 26 #2S	W14 x 30 #2S	W16 x 36 #2S
	8 ft	W6 x 9 #2	W6 x 9 #2	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #1	W6 x 15 #1S	W8 x 18 #2	W8 x 21 #2S	W8 x 21 #1S	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2S	W12 x 30 #2	W14 x 30 #2	-	-
	9 π 10 f	W6 x 9 #2 W6 x 9 #2	W6 x 9 #2 W6 x 12 #2	W6 x 12 #2 W6 x 12 #2	W6 x 12 #2 W6 x 15 #2	W6 x 15 #2 W6 x 15 #1	W6 x 15 #2 W6 x 15 #1	W6 x 15 #1 W6 x 15 #1	W6 x 15 #1 W8 x 18 #2	W8 x 18 #2 W6 x 20 #1S	W6 x 20 #1S W6 x 20 #1S	W8 x 21 #1S W8 x 21 #1S	W10 x 22 #2 W10 x 26 #2	W10 x 26 #2 W10 x 26 #1	W10 x 26 #1 W10 x 26 #1	W10 x 26 #1S	VV 12 X 30 #2	<u>-</u>	-	-
	11 f	-	W6 x 12 #2	W6 x 12 #2	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 10 #2 W6 x 20 #1	W6 x 20 #1S	W8 x 21 #1	-	-	-	- VV10 X 20 #1	<u>-</u>	_	_	-	-
11 ft	12 f	t W6 x 12 #2	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	W8 x 21 #1	-	-	-	-	-	-	-	-	-	-
	13 f	t W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	-	-	-	-	-	-	-	-	-	-	-
	14 f	t W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	-	-	-	-	-	-	-	-	-	-	-	-
	15 f	t W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16 f	t W6 x 15 #1 W6 x 9 #3	W6 x 15 #1 W6 x 9 #3	- W6 x 9 #2	- W6 x 12 #2	- W6 x 12 #2	- W6 x 12 #2	- W6 x 15 #2	- W6 x 15 #2	- W6 x 15 #2S	- W8 x 18 #2S	- W8 x 18 #2S	- W10 x 22 #2	- W10 x 22 #2	- W10 x 26 #2	- W10 x 26 #2S	- W12 x 26 #2S	- W14 x 30 #2S	W18 x 35 #2	- W18 x 40 #2
	2 ft	W6 x 9 #3	W6 x 9 #3	W6 x 12 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2	W8 x 18 #2	W8 x 18 #2S	W8 x 21 #2S	W10 x 22 #2 W10 x 22 #2	W10 x 22 #2 W10 x 26 #2	W10 x 26 #2	W10 x 26 #25	W14 x 30 #2	W14 x 30 #25	VV 10 X 35 #2	VV 10 X 40 #2
	9 ft	W6 x 9 #2	W8 x 10 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #1	W8 x 18 #2	W8 x 18 #2	W8 x 21 #1S	W8 x 21 #1S	W10 x 26 #2	W10 x 26 #2	W10 x 26 #1	W12 x 30 #2	-	-	-	-
	10 f	t W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #1	W6 x 15 #1	W8 x 18 #2	W8 x 18 #1	W6 x 20 #1S	W8 x 21 #1S	W10 x 26 #2	W10 x 26 #1	W10 x 26 #1	-	-	-	-	-	-
12 ft	11 f		W6 x 12 #2	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 16 #1	W8 x 18 #1	W6 x 20 #1	W8 x 21 #1	-	-	-	-	-	-	-	-	-	-
12 10	12 f		W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	-	-	-	-	-	-	-	-	-	-	-
	13 f		W6 x 15 #1 W6 x 15 #1	W6 x 15 #1 W6 x 15 #1	W6 x 15 #1 W8 x 18 #1	W8 x 18 #1 W6 x 20 #1	W6 x 20 #1 W6 x 20 #1	W6 x 20 #1 W6 x 20 #1	-	-	-	-	-	-	-	-	-	-	-	-
	14 f	t W6 x 15 #1	W6 x 15 #1	W6 x 16 #1	W8 x 18 #1	- VVO X 20 #1	- VVO X 20 #1		-	-	-	-	-		-	- -	-		-	-
	16 f	t W6 x 15 #1	W6 x 15 #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7 ft	W6 x 9 #3	W6 x 9 #2	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2S	W6 x 15 #2S	W8 x 18 #2S	W8 x 21 #2S	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2S	W12 x 26 #2	W14 x 30 #2	W18 x 35 #3	W18 x 40 #2	W21 x 44 #3
	8 ft	W6 x 9 #2	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #1S	W8 x 18 #2	W8 x 21 #2S	W8 x 21 #2S	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2S		W14 x 34 #2	W18 x 40 #2	W21 x 44 #3	W21 x 44 #3
	9 ft	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #1	W6 x 15 #1	W8 x 18 #2	W6 x 20 #1S	W8 x 21 #1S	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W12 x 30 #2	W14 x 30 #2	W16 x 36 #2	W18 x 40 #2	W21 x 44 #2	-
	10 f	t W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #1	W6 x 15 #1	W8 x 18 #2	W6 x 20 #1S	W8 x 21 #1	W10 x 22 #2	W10 x 26 #2	W10 x 26 #1	W12 x 30 #2	W14 x 30 #2	W16 x 36 #2	W18 x 40 #2	W21 x 44 #2	-	-
13 ft	11 f 12 f		W6 x 12 #2 W6 x 15 #1	W6 x 15 #1 W6 x 15 #1	W6 x 15 #1 W6 x 15 #1	W6 x 15 #1 W8 x 18 #1	W8 x 18 #2 W6 x 20 #1	W6 x 20 #1 W6 x 20 #1	W6 x 20 #1S W8 x 21 #1	W8 x 21 #1 W10 x 26 #1	W10 x 26 #2 W10 x 26 #1	W10 x 26 #1 W10 x 26 #1	W10 x 30 #1 W12 x 30 #2	W12 x 30 #2 W14 x 34 #2	W14 x 34 #2 W16 x 36 #2	W18 x 40 #2 W18 x 40 #2	W21 x 44 #2	-	-	-
	13 f		W6 x 15 #1	W6 x 15 #1	W6 x 16 #1	W8 x 18 #1	W6 x 20 #1	W8 x 21 #1	W10 x 26 #1	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1	W12 x 30 #2	W16 x 36 #2	W18 x 40 #2	-	-	-	-	-
	14 f	-		W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	W8 x 24 #1	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1	W12 x 30 #1	W14 x 34 #1	W16 x 40 #2	-	-		-	-	-
	15 f	t W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	W8 x 24 #1	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1	W10 x 30 #1	W14 x 34 #1	-	-	-	-	-	-	-	-
	16 f	t W6 x 15 #1	W6 x 16 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	W8 x 24 #1	W10 x 26 #1	W10 x 30 #1	W10 x 30 #1	W14 x 34 #1	W14 x 34 #1	-	-	-	-	-	- 10440 25 42	-	-
	7 ft	W6 x 9 #3	W6 x 9 #2	W8 x 10 #3	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2S	W8 x 18 #2	W8 x 18 #2S	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2		W12 x 26 #2S	W14 x 30 #2S	W18 x 35 #3	W21 x 44 #3	-
	0.4	W6 x 9 #2 W6 x 9 #2			W6 x 12 #2 W6 x 15 #2	W6 x 15 #2 W6 x 15 #2	W6 x 15 #2 W6 x 15 #1	W6 x 15 #2 W8 x 18 #2	W8 x 18 #2 W8 x 18 #2	W8 x 18 #2S W8 x 21 #2S	W8 x 21 #2S W10 x 22 #2	W10 x 22 #2 W10 x 26 #2	W10 x 26 #2 W10 x 26 #2	W10 x 26 #2 W12 x 26 #2	W12 x 26 #2 W14 x 30 #2		W18 x 35 #2 W18 x 40 #2	W18 x 40 #2 W21 x 44 #3	W21 x 44 #3	-
	10 f	W6 x 12 #2	_		W6 x 15 #2	W6 x 15 #1	W8 x 18 #2	W8 x 18 #2	W6 x 20 #1S	W8 x 21 #1S	W10 x 26 #2	W10 x 26 #2	W10 x 26 #2	W12 x 30 #2	W16 x 36 #2		W21 x 44 #3	-	-	-
4 4 54	11 f	-		W6 x 15 #1	W6 x 15 #1	W6 x 16 #1	W8 x 18 #2	W6 x 20 #1	W8 x 21 #1	W10 x 26 #2	W10 x 26 #2	W10 x 26 #1	W12 x 30 #2	W14 x 34 #2	W16 x 36 #2		-	-	-	-
14 ft	12 f	t W6 x 12 #1		W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W8 x 21 #1	W10 x 26 #2	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1	W14 x 34 #2	W16 x 36 #2	W18 x 40 #2	-	-	-	-	-
	13 f	t W6 x 12 #1		W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	W8 x 24 #1	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1	W12 x 30 #1	W14 x 34 #2	W18 x 40 #2	-	-	-	-	-	-
	14 f	-	W6 x 15 #1	W6 x 16 #1	W6 x 20 #1	W6 x 20 #1	W8 x 21 #1	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1	W12 x 30 #1	W14 x 34 #2	W16 x 36 #2	W18 x 40 #2	-	-	-	-	-	-
	15 f 16 f	t W6 x 15 #1 W6 x 15 #1	W6 x 15 #1 W8 x 18 #1	W8 x 18 #1 W6 x 20 #1	W6 x 20 #1 W6 x 20 #1	W6 x 20 #1 W8 x 24 #1	W8 x 24 #1 W10 x 26 #1	W10 x 26 #1 W10 x 26 #1	W10 x 30 #1 W10 x 30 #1	W10 x 30 #1 W12 x 30 #1	W14 x 34 #1 W14 x 34 #1	W16 x 36 #2	-	-	-	-	-	-	-	-
	7 ft	-		W8 x 10 #3	W6 x 12 #2	W12 x 14 #3	W6 x 15 #2	W6 x 15 #2S	W6 x 15 #2S	W8 x 18 #2S	W8 x 21 #2S	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2S	W12 x 26 #2	W14 x 30 #2	W18 x 35 #3	W18 x 40 #3	W21 x 44 #3	-
	8 ft		W8 x 10 #3		W12 x 14 #3	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2S	W8 x 18 #2	W8 x 21 #2S	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2		W18 x 40 #2	W21 x 44 #3	-	-
	9 ft	-	W6 x 12 #2		W6 x 15 #2	W6 x 15 #2	W6 x 15 #1	W8 x 18 #2	W6 x 20 #1S	W8 x 21 #2S	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W12 x 30 #2	W14 x 34 #2	W18 x 40 #2	W21 x 44 #3	-	-	-
	10 f		W6 x 12 #2		W6 x 15 #2	W6 x 15 #1	W8 x 18 #2	W6 x 20 #1S	W8 x 21 #1	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W12 x 30 #2	W14 x 30 #2	W16 x 36 #2		W21 x 44 #2	-	-	-
15 ft	11 f		W6 x 15 #2	_	W6 x 15 #1	W8 x 18 #2	W6 x 20 #1	W8 x 21 #1	W10 x 22 #2	W10 x 26 #2	W10 x 26 #1	W10 x 30 #1	W14 x 30 #2	W16 x 36 #2	W18 x 40 #2	W21 x 44 #2	-	-	-	-
	12 f			W6 x 15 #1	W6 x 16 #1	W8 x 18 #1	W6 x 20 #1	W8 x 21 #1	W10 x 26 #2	W10 x 26 #1	W10 x 30 #1	W12 x 30 #2	W14 x 34 #2	W18 x 40 #2	W21 x 44 #2	-	-	-	-	-
	13 f 14 f		W6 x 15 #1 W6 x 15 #1	W6 x 15 #1 W8 x 18 #1	W8 x 18 #1 W6 x 20 #1	W6 x 20 #1 W6 x 20 #1	W8 x 21 #1 W8 x 24 #1	W10 x 26 #1 W10 x 26 #1	W10 x 26 #1 W10 x 26 #1	W10 x 26 #1 W10 x 30 #1	W12 x 30 #2 W12 x 30 #1	W14 x 34 #2 W16 x 36 #2	W16 x 36 #2 W18 x 40 #2	W18 x 40 #2	-	-	-	-	-	-
	15 f			W8 x 18 #1	W6 x 20 #1	W8 x 24 #1	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1	W12 x 30 #1	W14 x 34 #1	-	-	-	-	-	-	-	-	-
	1.7.							 				+	-	l	+	+	+	+	1	+
	16 f		W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	W8 x 24 #1	W10 x 26 #1	W10 x 30 #1	W10 x 30 #1	W14 x 34 #1	-	-	-	-	-	-	-	-	-	-

-	-	-	_	THE INFORMATION, INCLUDING ESTIMATED
-	-	-	-	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED
-	-	-	-	INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE
-	-	-	_	THE CONDITIONS OF ACTUAL QUANTITIES
-	-	-	-	OF WORK WHICH WILL BE REQUIRED.
-	-	-	_	

SHEET NO. Plotted Date: 4/28/2014

REVISION DESCRIPTION

REV. DATE

FR/DRAFTER:
BKC JRH





ROUTE 8 INTERCHANGE 18 NEW NORTHBOUND ON-RAMP

TOWN:		
ANSONIA	AND	DERBY
DRAWING TITLE:		

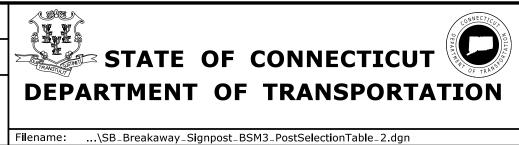
POST SELECTION TABLE 2

100										H (Sign H	leight + Crown H	leight)								
W	_ L	4 ft	5 ft	6 ft	7 ft	8 ft	9 ft	10 ft	11 ft	12 ft	13 ft	14 ft	15 ft	16 ft	17 ft	18 ft	19 ft	20 ft	21 ft	22 ft
	7 ft	-	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2S	W8 x 18 #2	W8 x 18 #2S	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2S	W12 x 26 #2S	W18 x 35 #3	W18 x 35 #3	W21 x 44 #3	-	-
1	8 ft	_	W8 x 10 #3	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2	W6 x 16 #2S	W8 x 18 #2	W8 x 21 #2S	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	_	W21 x 44 #3	-		_
1	9 ft	_	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2	W6 x 16 #1	W8 x 18 #2	W8 x 21 #2	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 35 #2		W21 x 44 #3	_		-
1	10 ft		W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 16 #1	W8 x 18 #2	W8 x 21 #2	W8 x 21 #1	W10 x 26 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W16 x 36 #2	W18 x 40 #2	W21 x 44 #3	-	_		_
1	11 ft		W6 x 15 #2	W6 x 15 #1	W6 x 15 #1	W8 x 18 #2	W6 x 20 #1	W8 x 21 #1	W10 x 26 #2	W10 x 26 #2	W10 x 26 #1	W12 x 30 #2	W14 x 34 #2	W18 x 40 #2	W21 x 44 #3	-	_	-		_
16 ft	12 ft		W6 x 15 #1	W6 x 15 #1	W8 x 18 #2	W6 x 20 #1	W8 x 21 #1	W10 x 26 #2	W10 x 26 #2	W10 x 26 #1	W12 x 30 #2	W14 x 34 #2	W16 x 36 #2	W18 x 40 #2	-	_		_		_
1	13 ft		W6 x 15 #1	W6 x 16 #1	W6 x 20 #1	W6 x 20 #1	W10 x 22 #2	W10 x 26 #1	W10 x 26 #1	W10 x 20 #1	W14 x 34 #2	W16 x 36 #2	W18 x 40 #2	V 10 λ 40 π2		-		-	_	-
1	14 ft		W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W8 x 21 #1	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1	W10 x 30 #1	W14 x 34 #2	W18 x 40 #2	V 10 λ 40 π2	+	-		-	+		
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1	15 ft	<u>-</u>	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	W8 x 24 #1	W10 x 26 #1		W10 x 30 #1	W14 x 34 #2	VV 10 X 30 #2	-	-	-	-	-	-	-	- +	-
\vdash	16 ft	-	W8 x 18 #1	W6 x 20 #1	W8 x 24 #1	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1	W12 x 30 #1	W14 x 34 #1	- 1440 00 #0	- 10/40 00 .#0	- 10/40 00 #00	- 1	- 40	- 10/40 25 #2	10/04 44 #2	-	-	-
1	7 ft	-	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2S	W8 x 18 #2S	W8 x 21 #2S	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2S	W12 x 26 #2	W14 x 30 #2	W18 x 35 #3	W21 x 44 #3	-	-	-
1	8 ft	-	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2	W8 x 18 #2	W8 x 21 #2S	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 35 #3	-	W21 x 44 #3	-	-	-
1	9 ft	-	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2	W8 x 18 #2	W6 x 20 #1S	W8 x 21 #2S	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W14 x 30 #2	W18 x 35 #3	W18 x 40 #2	W21 x 44 #3		-		-
1	10 ft	-	W6 x 12 #2	W6 x 15 #2	W6 x 15 #1	W8 x 18 #2	W6 x 20 #1	W8 x 21 #2	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W12 x 30 #2	W14 x 34 #2	W18 x 40 #2	W21 x 44 #3	- '		-		-
17 ft	11 ft	-	W6 x 15 #2	W6 x 15 #1	W6 x 16 #1	W8 x 18 #2	W8 x 21 #2	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W12 x 30 #2	W14 x 30 #2	W16 x 36 #2	W18 x 40 #2	W21 x 44 #3	-		-		-
, ., .,	12 ft	-	W6 x 15 #1	W6 x 15 #1	W8 x 18 #2	W6 x 20 #1	W8 x 21 #1	W10 x 26 #2	W10 x 26 #2	W10 x 30 #1	W14 x 30 #2	W16 x 36 #2	W18 x 40 #2	W21 x 44 #2		-		-		-
1	13 ft	-	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W8 x 21 #1	W10 x 26 #2	W10 x 26 #1	W10 x 26 #1	W12 x 30 #2	W14 x 34 #2	W18 x 40 #2	W21 x 44 #2			-		-		-
1	14 ft	-	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W8 x 24 #1	W10 x 26 #1	W10 x 26 #1	W12 x 30 #2	W14 x 34 #2	W16 x 36 #2	W18 x 40 #2		-		-		-		-
1	15 ft	-	W8 x 18 #1	W6 x 20 #1	W8 x 21 #1	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1	W12 x 30 #1	W16 x 36 #2				-		-		-	-	-
[[]	16 ft	-	W6 x 20 #1	W6 x 20 #1	W8 x 24 #1	W10 x 26 #1	W10 x 30 #1	W12 x 30 #1	W14 x 34 #1	-	-	-	-	-	-	-	-	-	-	-
1	7 ft		W8 x 10 #3	W6 x 12 #2	W12 x 14 #3	W6 x 15 #2	W6 x 15 #2S	W6 x 15 #2S	W8 x 18 #2S	W8 x 21 #2S	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 35 #3	W18 x 35 #3	W21 x 44 #3	-		-
1	8 ft		W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2S	W8 x 18 #2	W8 x 21 #2S	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W12 x 26 #2	W18 x 35 #3	W18 x 35 #3	W21 x 44 #3	-	-	-	-
, ,	9 ft	-	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2	W8 x 18 #2	W8 x 21 #2	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 35 #3	W21 x 44 #3	-	-	-	-	-
1	10 ft	-	W6 x 15 #2	W6 x 15 #2	W6 x 15 #1	W8 x 18 #2	W8 x 21 #2	W8 x 21 #2	W10 x 26 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 35 #2	W18 x 40 #2	W21 x 44 #3	-	-	-	-	-
45 =	11 ft	-	W6 x 15 #2	W6 x 15 #1	W8 x 18 #2	W6 x 20 #1	W8 x 21 #2	W10 x 26 #2	W10 x 26 #2	W10 x 26 #2	W12 x 30 #2	W16 x 36 #2	W18 x 40 #2	W21 x 44 #3	-	-	_	- 1		-
18 ft	12 ft	_	W6 x 15 #1	W6 x 15 #1	W8 x 18 #2	W8 x 21 #1	W10 x 22 #2	W10 x 26 #2	W10 x 26 #1	W12 x 30 #2	W14 x 34 #2	W18 x 40 #2	W21 x 44 #3	-	_	-	-	-	-	-
1	13 ft		W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W8 x 21 #1	W10 x 26 #2	W10 x 26 #1	W10 x 30 #1	W14 x 34 #2	W16 x 36 #2	W18 x 40 #2	-	-	_	-	_	-		-
1	14 ft	_	W6 x 16 #1	W6 x 20 #1	W6 x 20 #1	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1	W12 x 30 #2	W16 x 36 #2	W18 x 40 #2	-			_		_	_		
1	15 ft		W8 x 18 #1	W6 x 20 #1	W8 x 24 #1	W10 x 26 #1	W10 x 26 #1	W12 x 30 #1	W14 x 34 #2	W16 x 36 #2	-	-			_	-	_	_		i
1	16 ft		W6 x 20 #1	W6 x 20 #1	W10 x 26 #1	W10 x 26 #1	W10 x 20 #1	W12 x 30 #1	W16 x 36 #2	VV 10 X 30 #Z			-			-		-		
	7 ft	<u>-</u>	-	W6 x 12 #2	W12 x 14 #3	W6 x 15 #2	W6 x 15 #2S	W8 x 18 #2	W8 x 18 #2S	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 35 #3	W21 x 44 #3	-			
1			-	W12 x 14 #3	W6 x 15 #2	W6 x 15 #2	W6 x 16 #2S	W8 x 18 #2	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W12 x 20 #2 W14 x 30 #2	W18 x 35 #3	W21 x 44 #3	W21 x 44 #3	-	+	-	- I
1	8 ft	<u>-</u>	-			W6 x 16 #2						W12 x 20 #2 W14 x 30 #2			+		-	-		<u>-</u> i
1	9 ft	-	-	W6 x 15 #2	W6 x 15 #2		W8 x 18 #2	W8 x 21 #2	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2		W18 x 35 #3	W18 x 35 #3	W21 x 44 #3	-	-	-		-
	10 ft		-	W6 x 15 #2	W6 x 15 #1	W8 x 18 #2	W8 x 21 #2	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W12 x 26 #2	W18 x 35 #3	W18 x 40 #3	W21 x 44 #3		-	-	-		
19 ft	11 ft	-	-	W6 x 15 #1	W8 x 18 #2	W6 x 20 #1	W8 x 21 #1	W10 x 26 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W16 x 36 #2	W21 x 44 #3	- '	-	-		-		-
1	12 ft	-	-	W8 x 18 #2	W6 x 20 #1	W8 x 21 #1	W10 x 26 #2	W10 x 26 #2	W10 x 26 #1	W14 x 30 #2	W16 x 36 #2	W18 x 40 #2	W21 x 44 #3	-	-	-		-		-
1	13 ft		-	W8 x 18 #1	W6 x 20 #1	W10 x 22 #2	W10 x 26 #2	W10 x 26 #1	W12 x 30 #2	W16 x 36 #2	W18 x 40 #2	W21 x 44 #2	-	-	-	-		-		-
1	14 ft	-	-	W6 x 20 #1	W8 x 21 #1	W10 x 26 #1	W10 x 26 #1	W12 x 30 #2	W14 x 34 #2	W16 x 36 #2			-	-		-		-	- +	
1	15 ft	-	-	W6 x 20 #1	W8 x 24 #1	W10 x 26 #1	W10 x 30 #1	W12 x 30 #1	W16 x 36 #2	-	-	-	-	-	-	-		-		-
	16 ft	-	-	W6 x 20 #1	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1	W14 x 34 #2	-	-		-	-	- '	-	-		-	-	_
1	7 ft	-	-	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2S	W8 x 18 #2S	W8 x 21 #2S	W10 x 22 #2	W10 x 22 #2	W12 x 26 #2	W14 x 30 #3	W16 x 31 #3	W18 x 35 #3	W21 x 44 #3		-	-	_
1	8 ft	-	-	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2	W8 x 18 #2	W8 x 21 #2S	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W18 x 35 #3	W18 x 35 #3	W21 x 44 #3	-		-		-
1	9 ft	-	-	W6 x 15 #2	W6 x 15 #2	W8 x 18 #2	W8 x 21 #2	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W14 x 34 #2	W18 x 35 #3	W21 x 44 #3	-	-		-	-	-
į į	10 ft	-	-	W6 x 15 #2	W6 x 16 #1	W8 x 18 #2	W8 x 21 #2	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 35 #3	W21 x 44 #3	W21 x 44 #3	-	-	-	-	-	-
1 20 4	11 ft	-	-	W6 x 15 #1	W8 x 18 #2	W8 x 21 #2	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W12 x 30 #2	W18 x 35 #2	W18 x 40 #2	W21 x 44 #3	- '	-	-	-	-	-	
20 ft	12 ft	-	-	W8 x 18 #2	W6 x 20 #1	W8 x 21 #1	W10 x 26 #2	W10 x 26 #2	W12 x 30 #2	W14 x 30 #2	W18 x 40 #2	W21 x 44 #3	-	-	-	-	-	-	-	-
, ,	13 ft		-	W6 x 20 #1	W8 x 21 #1	W10 x 26 #2	W10 x 26 #2	W10 x 30 #1	W14 x 30 #2	W16 x 36 #2	W18 x 40 #2	W21 x 44 #2	-	-	-	-	_	-		
, ,	14 ft	-	-	W6 x 20 #1	W8 x 21 #1	W10 x 26 #1	W10 x 26 #1	W12 x 30 #2	W16 x 36 #2	W18 x 40 #2	-	-	-	-	-	-	-	-	-	_
1	15 ft	-	-	W6 x 20 #1	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1	W14 x 34 #2	W16 x 36 #2	-	-	-	-	-	-	-	_	-	-	
1	16 ft	-	-	W8 x 24 #1	W10 x 26 #1	W10 x 30 #1	W12 x 30 #1	W16 x 36 #2	-	-	_	-	-	-	-	-	_	-	_	-
	7 ft	-	-	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 16 #2S	W8 x 18 #2S	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W16 x 31 #3	W18 x 35 #3	W21 x 44 #3	-	_	-		· -
1	8 ft	_	-	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2	W8 x 18 #2	W8 x 21 #2S	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 35 #3	W21 x 44 #3	-	-	_	-		-
1	9 ft	_	_	W6 x 15 #2	W6 x 15 #2	W8 x 18 #2	W8 x 21 #2	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 35 #3	W18 x 35 #3	W21 x 44 #3	_	-	_	-	_ +	
1	10 ft	_	-	W6 x 15 #2	W8 x 18 #2	W6 x 20 #1	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W12 x 26 #2	W18 x 35 #3	W18 x 35 #3	W21 x 44 #3	-	-	-	_	-		-
1	11 ft		-	W6 x 15 #2	W8 x 18 #2	W8 x 21 #2	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W12 x 20 #2 W14 x 30 #2	W16 x 40 #2	W21 x 44 #3	-			-		-		-
21 ft			-	W8 x 18 #2	W6 x 20 #1	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W14 x 30 #2	W16 x 36 #2	W18 x 40 #2	W21 x 44 #3	+	+				+		
1	12 ft	-	-	W6 x 20 #1		W10 x 22 #2 W10 x 26 #2	W10 x 26 #2	W10 x 26 #2 W12 x 30 #2	W14 x 30 #2	W18 x 40 #2	W21 x 44 #3	VVZ I X 44 #3	-	-	-	-		-	- +	- I
1	13 ft	-	-		W8 x 21 #1			+		VV 10 X 4U #Z	VV∠IX 44 #3	-	-	-	-	-	-	-	- +	-
1	14 ft	-	-	W6 x 20 #1	W10 x 26 #2	W10 x 26 #1	W10 x 30 #1	W14 x 34 #2	W16 x 36 #2	- '				-	-	- '				
1	15 ft	-	-		W10 x 26 #1	W10 x 26 #1	W12 x 30 #2	W16 x 36 #2	-	-	-		-	-	-	-	-	-		-
\vdash	16 ft	-	-	W8 x 24 #1	W10 x 26 #1	W10 x 30 #1	W14 x 34 #2	W16 x 36 #2	-	- 10/40 × 22 #2	- 10/40 × 00 #2	10/40 = 00 #0	-	- 10/40 × 25 #2	14/04 :: 44 !!0	-	-	-	-	-
1	7 ft	-	-	W6 x 12 #2		W6 x 15 #2	W8 x 18 #2	W8 x 18 #2S	W10 x 22 #2	W10 x 22 #2	W12 x 26 #3	W16 x 26 #3	W16 x 31 #3	W18 x 35 #3	W21 x 44 #3	-	-	-	-	-
1	8 ft	-	-	W6 x 15 #2		W6 x 15 #2	W8 x 18 #2	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2		W18 x 35 #3	W21 x 44 #3	-	-	-	-	-	-
1	9 ft	-	-	W6 x 15 #2		W8 x 18 #2	W8 x 21 #2	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 35 #3	W21 x 44 #3	-	-	-	-	-		-
1	10 ft	-	-	W6 x 15 #2	W8 x 18 #2	W8 x 21 #2	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 35 #3	W21 x 44 #3	-	-	-	-	-	-	-	-
22 ft	11 ft	_	-	W6 x 16 #1	W6 x 20 #1	W8 x 21 #2	W10 x 26 #2	W10 x 26 #2	W12 x 26 #2	W18 x 35 #3	W18 x 40 #3	W21 x 44 #3	-	-	-	-	-	-	-	-
	12 ft	-	-	W8 x 18 #2	W8 x 21 #2	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 40 #2	W21 x 44 #3	-	-	-	-	-	-	-	-	-
1	13 ft		-	W6 x 20 #1	W8 x 21 #1	W10 x 26 #2	W10 x 26 #1	W12 x 30 #2	W16 x 36 #2	W18 x 40 #2	-	-	-	-	-	-	-	-	-	-
, ,	14 ft		-	W6 x 20 #1	W10 x 26 #2	W10 x 26 #1	W12 x 30 #2	W14 x 34 #2	W18 x 40 #2	-	-	-	-	-	-	-	-	-	-	-
t i		-	-	W10 x 22 #1		W10 x 30 #1	W12 x 30 #2	W16 x 36 #2	-	-	-	-	-	-	-	-	-	-	-	-
	15 ft															1				
	16 ft	-	-	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1	W14 x 34 #2	-	-	-	-	-	-	-	-	-	-	-	-	-

-	-	-	_	THE INFORMATION, INCLUDING ESTIMATED
-	_	-	_	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED
-	-	-	_	INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE
-	-	-	_	THE CONDITIONS OF ACTUAL QUANTITIES
-	-	-	_	OF WORK WHICH WILL BE REQUIRED.
-	-	-	_	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/28/2014

NER/DRAFTER:
BKC JRH

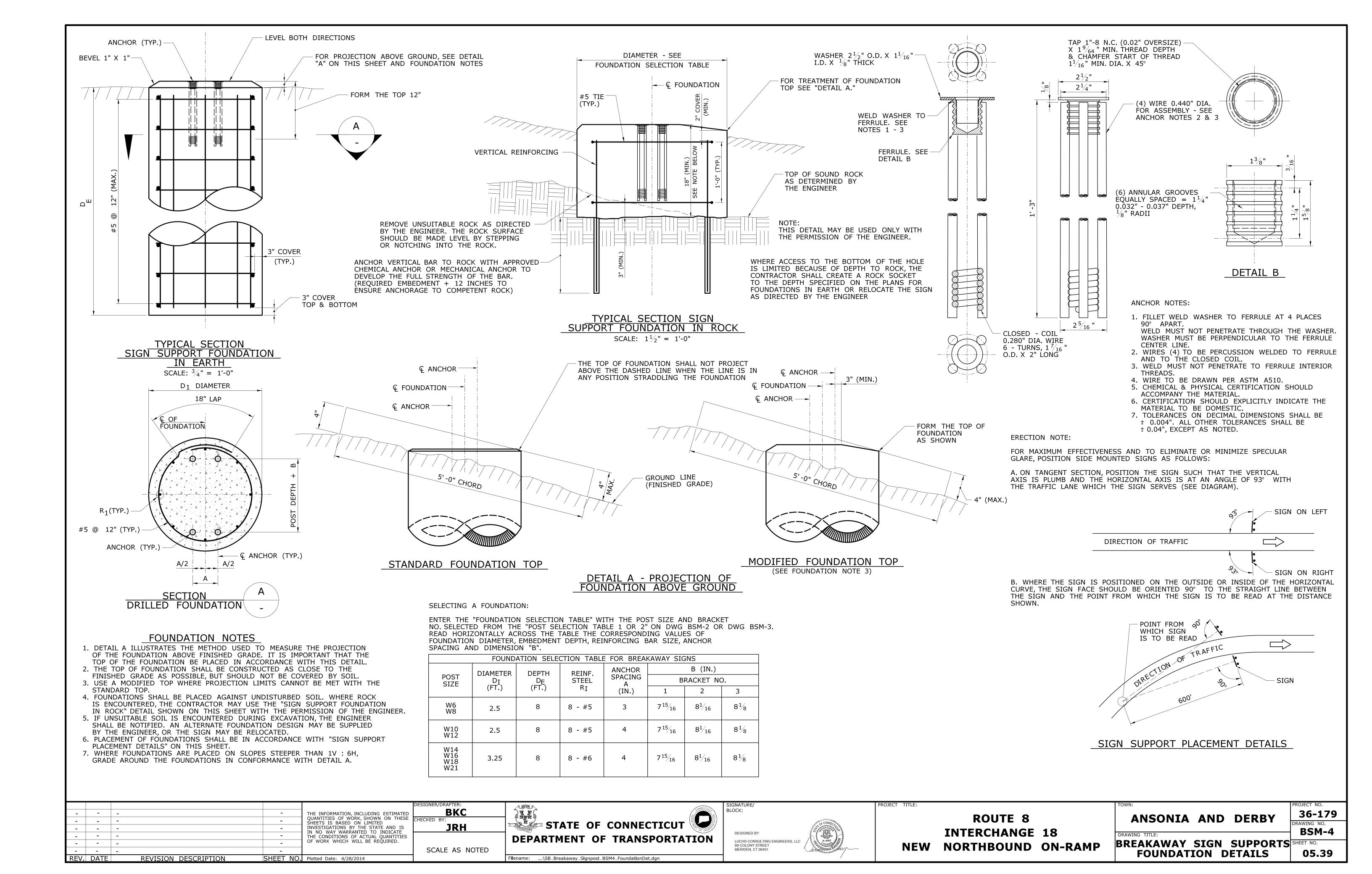
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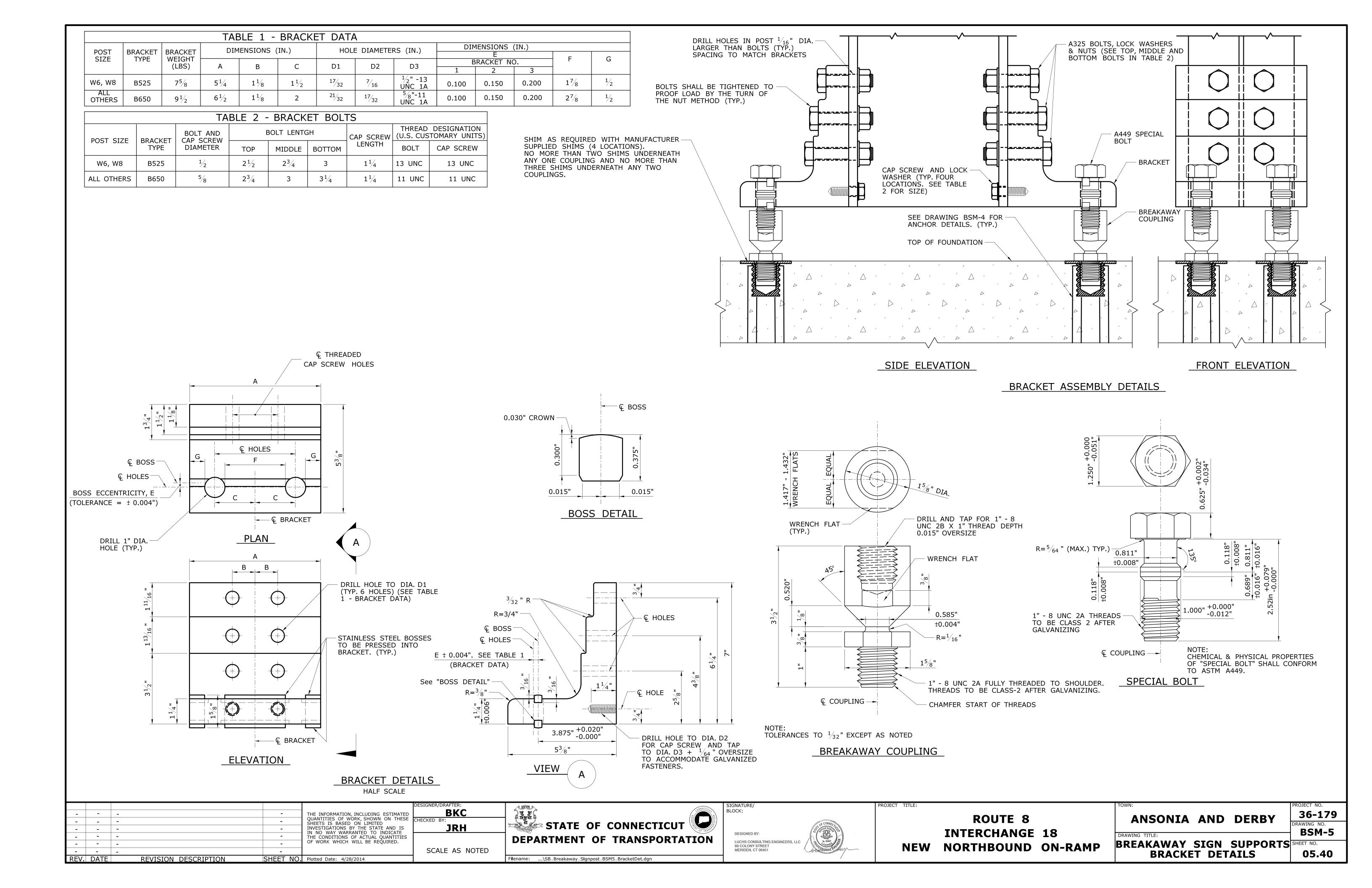


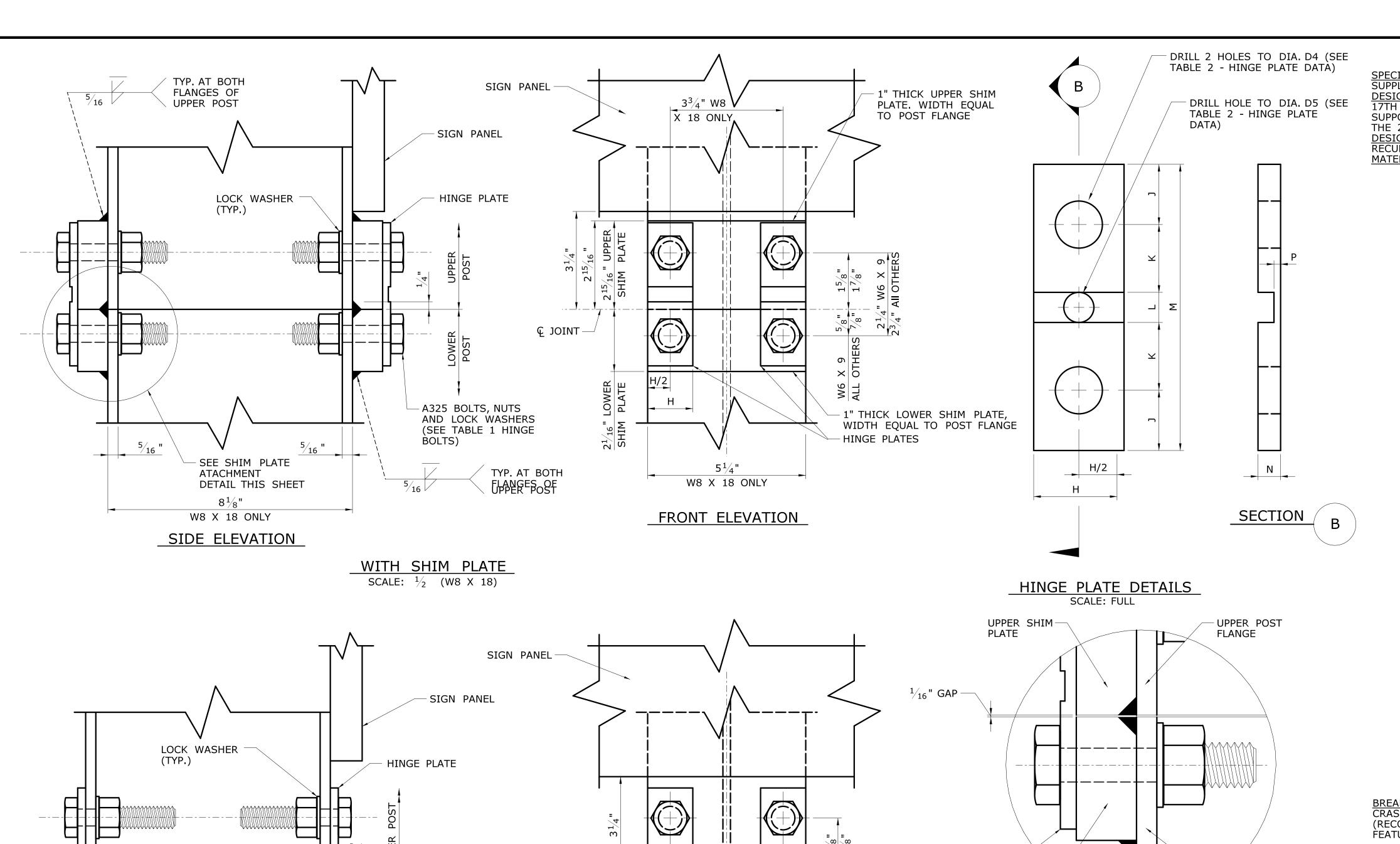


ROUTE 8 INTERCHANGE 18 NEW NORTHBOUND ON-RAMP ANSONIA AND DERBY

36-179
DRAWING NO.
BSM-3 BREAKAWAY SIGN SUPPORTS
POST SELECTION TABLE 2 05.38







Н

W8 X 18 ONLY

FRONT ELEVATION

SHIM PLATE ATTACHMENT DETAILS

LOWER POST

FLANGE

TABLE 2 - HINGE PLATE DATA										
	PLATE			HOLE DIA. (IN.)						
SIZE	NO.	Н	J	K	L	М	N	Р	D4	D5
W6 X 9	1	1	3/4	7/8	1/2	3 ³ / ₄	15/64	0.071 ± 0.004	17/32	NONE
W6* AND W8	2	1 1/2	1	1 1/8	1/2	43/4	3/8	0.113 ± 0.004	25/ 32	1/2
ALL OTHERS	3	1 1/2	1	1 1/8	1/2	43/4	3/8	0.113 ± 0.004	25/ 32	NONE

* EXCLUDING W6 X 9

HINGE PLATE

PLATE

LOWER SHIM-

GENERAL NOTES

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 816 (2004), SUPPLEMENTAL SPECIFICATION DATED JANUARY 2011, AND SPECIAL PROVISIONS. DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES 17TH EDITION DATED 2002, AND AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS (2009) WITH THE 2011 INTERIM SPECIFICATIONS.

<u>DESIGN LOADS</u>: THE DESIGN WIND SPEED IS 100 MPH, BASED ON A 10-YEAR MEAN RECURRENCE INTERVAL. MATERIALS:

FOUNDATIONS: CONCRETE FOR FOUNDATIONS SHALL BE CLASS "A" CONCRETE.

<u>REINFORCEMENT</u>: REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60.

SIGN POSTS: STEEL FOR SIGN POSTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709, GRADE 36, AND SHALL BE HOT DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123. THE POST SHALL BE PERMANENTLY LABELED WITH THE POST SIZE ON THE WEB AT THE BOTTOM OF THE LOWER POST.

ANCHORS: THREADED FERRULES SHALL BE FABRICATED FROM TYPE 304 STAINLESS STEEL. RODS SHALL BE FABRICATED FROM STEEL CONFORMING TO AISI 1038.

STEEL COILS SHALL CONFORM TO THE REQUIREMENTS OF AISI 1008. MINIMUM TENSILE STRENGTH OF 60,000 LBS.

SHIMS: 1" HORSESHOE SHIMS SHALL BE FABRICATED FROM 14 OR 18 GAUGE SHEET STEEL.

BREAKAWAY COUPLINGS: BREAKAWAY COUPLINGS SHALL BE MADE FROM ALLOY STEEL CONFORMING TO AMS 6378D WITH EXCEPTIONS TO DECARBURIZATION AND MACROSTRUCTURE CLAUSES OR AN EQUIVALENT MATERIAL, AND SHALL HAVE A MINIMUM TENSILE YIELD STRENGTH OF 130,000 PSI. THE COUPLING SHALL HAVE A MINIMUM TENSILE ULTIMATE STRENGTH OF 40,400 LBS. THE ROCKWELL HARDNESS SHALL BE C32 MINIMUM. COUPLINGS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A153, CLEANED AND PHOSPHATED PER FEDERAL SPECIFICATION TT-C-490C, COATED, 0.002" - 0.004" THICK, USING MORTON POWDER COATINGS' 20-7037 BLACK POLYESTER POWDER OR EQUIVALENT.
CHIPPED AREAS OF THE COATED SURFACE SHALL BE REPAIRED. ALL THREADED SURFACES, AFTER COATING, SHALL BE CLEANED TO ALLOW THEM TO FUNCTION

BRACKETS: BRACKETS SHALL BE MADE FROM ALUMINUM ALLOY 6061-T6 OR AN EQUIVALENT MATERIAL. THE LOAD CONCENTRATING MEMBER (BOSS) SHALL BE MADE FROM STAINLESS STEEL CONFORMING TO ASTM A582, TYPE 416 WITH ROCKWELL HARDNESS OF C33 - C45. LOCATION HOLES FOR THE BREAKAWAY COUPLING SHALL BE ACCURATELY POSITIONED RELATIVE TO THE LOAD CONCENTRATING MEMBER AND BRACKETS SHALL BE PERMANENTLY LABELED WITH THE BRACKET NUMBER TO REFLECT THE HOLE POSITIONING. SEE DWG. NO. BSM-5 FOR IDENTIFICATION OF BRACKETS BY NUMBER.

<u>HINGE PLATES</u>: HINGE PLATES SHALL BE MADE FROM ALLOY STEEL CONFORMING TO AISI 4130 OR AN EQUIVALENT MATERIAL AND SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123. THE HINGE PLATE SHALL HAVE A MINIMUM TENSILE YIELD STRENGTH OF 90,000 PSI AND MINIMUM TENSILE ULTIMATE STRENGTH AS FOLLOWS:

HI-1 7,100 LBS HI-2 11,300 LBS HI-3 17,000 LBS

BOLTS, NUTS AND WASHERS: UNLESS NOTED OTHERWISE, ALL BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325. SPECIAL BOLTS SHALL CONFORM TO ASTM A449. NUTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A563, GRADE DH. LOCKWASHERS SHALL CONFORM TO THE REQUIREMENTS OF ANSI B18-21-1. BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A153. SPECIAL BOLTS MAY BE MECHANICALLY GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM B695, CLASS 50.

<u>CAP SCREWS</u>: CAP SCREWS ATTACHING BRACKETS TO POSTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A307 AND SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A153.

BREAKAWAY HARDWARE: BREAKAWAY HARDWARE SHALL BE SUPPLIED AS COMPONENTS OF A CRASH-TESTED SYSTEM COMPLYING WITH THE GUIDELINES OF NCHRP REPORT 350 (RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES). THE MANUFACTURER SHALL SUBMIT TEST REPORTS TO FHWA FOR APPROVAL.

<u>CERTIFICATION</u>: THE CONTRACTOR SHALL PROVIDE A MATERIALS CERTIFICATE TO CERTIFY THAT THE MATERIAL AND COMPONENTS CONFORM TO THOSE SHOWN ON THE PLANS AND SPECIFICATIONS.

<u>CHANGES</u>: NO CHANGE IN DESIGN MATERIALS OR DETAIL ALTERATIONS WILL BE PERMITTED WITHOUT PRIOR APPROVAL BY THE ENGINEER.

INSTALLATION: INSTALLATION OF THE BREAKAWAY ASSEMBLY SHALL BE IN ACCORDANCE WITH THE RECOMMENDED PRACTICES OF THE SUPPLIER.

BASIS OF PAYMENT: THE COST OF FURNISHING AND INSTALLING THE BREAKAWAY HINGE PLATE ASSEMBLY WILL BE INCLUDED IN THE PAY ITEM "STRUCTURAL STEEL SIGN SUPPORTS." THE COST OF FURNISHING AND INSTALLING THE BREAKAWAY COUPLING SYSTEM, CONSISTING OF BRACKET, BREAKAWAY COUPLINGS, SPECIAL BOLTS, AND SHIMS WILL BE INCLUDED IN THE PAY ITEM "SIDE MOUNTED SIGN FOUNDATION." THE COST OF FURNISHING AND INSTALLING FOUNDATIONS, INCLUDING EXCAVATING, CLASS "A" CONCRETE, REINFORCING STEEL AND ANCHOR FERRULES, WILL BE INCLUDED IN THE PAY ITEM "SIDE MOUNTED SIGN FOUNDATION."

	TABLE 1	BOLTS				
POST SIZE	HINGE AS	SSEMBLY	THREAD DESIGNATION (U.S. CUSTOMARY UNITS)			
	BOLT DIAMETER	BOLT LENGTH				
W6 x 9	1/2	1 1/2	13 UNC			
ALL OTHERS	3/4	21/4	10 UNC			

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 4/28/2014

W8 X 18 ONLY

SIDE ELEVATION

DESIGNER/DRAFTER:

BKC

CHECKED BY:

JRH

SCALE AS NOTED

A325 BOLTS, NUTS AND

TABLE 1 - HINGE BOLTS)

LOCK WASHERS. (SEE

SCALE: $\frac{1}{2}$ (W8 X 18)

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_Breakaway_Signpost_BSM6_HingeDet.dgn

W6 ALL



ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP

ANSONIA AND DERBY

BREAKAWAY SIGN SUPPORTS
HINGE DETAILS

BSN
SHEET NO.
05.

RAWING NO.
BSM-6
HEET NO.
05.41

36-179